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VICTOR HASSELBLAD
Aktiebolag
GÖTEBORG · SWEDEN

The drawings show the latest construction of the parts. In exceptional cases it may happen that the part to be exchanged does not correspond exactly with the drawing. In this case, kindly note on your order that the part desired does not conform with the drawing.

At the end of this catalogue are a number of order forms. They are transparent in case any detail has to be traced.

●

Die Zeichnungen zeigen die letzte Ausführung der Teile. Es kann ausnahmsweise eintreffen, dass der Teil, der ausgetauscht werden soll, nicht genau mit dem Abgebildeten übereinstimmt. Wir bitten Sie in diesem Falle bei Bestellung anzugeben, dass das Detail abweichendes Aussehen hat.

Am Ende des Deckes gibt es Bestellzettel. Sie sind durchsichtig um behilflich zu sein, falls ein Detail abgezeichnet werden soll.

●

Les dessins montrent la dernière construction des différentes parties. Il se peut exceptionnellement qu'une de vos parties ne corresponde pas exactement à celle du dessin. En ce cas indiquez-nous dans votre ordre quel est le détail différent.

Au dos de la couverture vous trouverez des feuilles de commande. Elles sont transparentes au cas où un détail a besoin d'être copié.

●

Los dibujos muestran el último sistema de fabricación de las diferentes partes. Por una excepción puede suceder que la parte que haya de cambiarse no sea exactamente igual a la del dibujo. En tal caso, indíquese en la hoja de pedido que el detalle tiene aspecto diferente.

Al final de la carpeta hay varias hojas de pedido. Son transparentes para el caso en que algún detalle necesite calcarse.

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Repair guide for the camera body

Fault	Possible Causes
C1 Knob cannot be wound, mirror stays up.	1 Clutch components on shaft (P.5 for 20537) strike against each other, while curtains have not travelled fully. 2 Release assembly (P.3 20526) behind shutter-release-button is stuck.
C2 Knob cannot be wound, mirror is partly down.	1 Lifting-stud (P.6 on 12150) stuck against stud on L-arm (P.3 12046). 2 Broken teeth on gear-wheels. 3 Mirror interferes against lens mounting. 4 Pawl for middle gear-wheel (P.7 12087) slips, due to loosened rivet.
C3 Knob cannot be wound, mirror is down, shutter-curtains partly wound.	1 Broken brake (P.5 12605 and/or 12606) in spring assembly. 2 Shutter mechanism (P.3) blocked or stuck.
C4 Knob can be wound normally. Mirror goes down but curtains do not wind; or else the shutter curtains are released immediately.	1 Clutch components (P.5 on shaft 20537) broken. 2 Catch (P.6 on 12160) does not engage on part P.9 12162. 3 Mirror release arm (P.7 12103) is loose or works stiffly. 4 Mirror-winding-arm (P.2 20688) in knob-mechanism is loose.
C5 Button release does not function. Curtains fully wound but full knob-winding action cannot be completed.	1 Clutch (P.5 on shaft 20537) engages a half revolution (or more) too early, after fault C9 has occurred.
C6 Button release does not function. Mirror completely down.	1 A fault somewhere in the transmission from winding-knob to lowest gear-wheel in the mechanism. Knob movement for time-setting in faulty position. 2 Mirror release-arm (P.7 12103) is loose or works stiffly. See C4–3.
C7 Automatic exposure action has begun, but cannot continue. Mirror in partly UP-position.	1 Mirror is loose. This usually applies to the whole group (P.6 12652, 20572, 12761, 20651, 12630) – because the shaft (P.6 12187) has become disengaged from its coupling (P.6 20530). 2 Mirror winding-arm (P.2 20688) does not function correctly with the winding-knob (P.2 20520). 3 Mirror drags against corrugated side walls. 4 Lifting stud (P.6 on 12150) stops against stud on L-arm (P.3 12046); see C2–1. 3-claw device (P.3 20539) works stiffly. 5 Obstruction in winding-knob mechanism (P.2).
C8 Automatic exposure action has begun, but cannot be completed. Mirror has returned to the UP-position.	1 Spring for 1st curtain broken (right coil-spring (P.5 12367). 2 Obstruction in shutter mechanism (P.3).
C9 Curtains do not give an exposure, or curtain stops within picture area.	1 Lock (P.3 20539 in shutter mechanism deformed. 2 Jump in bevelled timing-gears (P.3 12048 and P.7 12119). 3 Loose bevelled gear-wheel (P.3 12048) on time-setting-shaft (P.3 12050). 4 Broken curtain-spring (compare with C8–1 and C13–2). 5 Delay-action mechanism (P.4 or 4a) slips or races.

Continued

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Fault	Possible Causes
C10 Curtains give uneven or wrong exposure.	1 Stiffness in spring-housing (P.5 12158), curtain shafts, rollers, or shutter-mechanism (P.3). 2 Broken spring-catch, visible, but not numbered, to the right of washer (P.3 D-3,55×6,5×A). 3 Creases, dents or other defects in curtains. 4 Pin in curtain clutch component (P.5 on shaft 20537) out of position. 5 Space between curtains and spring-power needs adjusting.
C11 Under-exposed strip on the negative at the edge opposite the two small notches (that is, under-exposed at the end of exposure).	1 First curtain (P.5 20537) bounces.
C12 Over-exposed strip on the negative at the edge opposite the two small notches (that is, over-exposed at the end of exposure).	1 Second curtain (P.5 20538) bounces.
C13 Shutter aperture remains open after completing release action.	1 Second curtain (P.5 20538) split. 2 Broken coil-spring (P.5 12367 to the left) of second curtain (P.5 20538). 3 Brake for second curtain out of position. 4 Delay-action mechanism (P.4) does not release the second curtain.
C14 Red-white signal does not change.	1 Signal (P.7 20515) works stiffly, or else connecting springs (P.7 VF 40, VF 41) are defective. 2 Release assembly (P.3 20526) behind shutter release-button does not return fully to its "ready" position (compare C1–2).
C15 Film winding trouble.	1 Gear-wheel (P.7 12092) in camera does not mesh with, but strikes top of, teeth of gear-wheel (P.12 12216) in film magazine. 2 Catch (P.12 12308) in film magazine is not released by plunging-rod (P.7 12336) in camera.
C16 Ground-glass image not sharp but blurred.	1 Mirror does not go fully down to its supports (compare C7–3). 2 Mirror is loose (compare C7–1). 3 Ground-glass (P.6 20548) and Ektalite-field lens (P.6 12360) in wrong position. 4 Ground-glass (P.6 20548) and Ektalite-field lens (P.6 12360) defective.
C17 Lens cannot be locked, or has too much play.	1 Screw-threads damaged. 2 Lens lock-release device (P.9 12653) defective.
C18 Film magazine does not lock securely, or has too much play.	1 Defective back frame (P.9 40102) in camera housing. 2 Double hooked top clasp (P.6 12178) defective. 3 Bottom hooks (P.1 12184) loosened from their rivets.
C19 Sports view-finder does not engage properly in bracket on camera body.	1 Bracket (P.1 20571) defective.
C20 Synchronization faults.	1 Synchronization wrongly set. 2 No contact made. 3 Short circuit.

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Fault	Possible Causes
C21 Defects in appearance.	1 Camera body. 2 Lens socket (P.1 30248) 3 Winding-knob (P.2 20520) 4 Bracket (P.1 20571). 5 Covering. 6 Creases on the curtains.
C22 General overhauling.	1 Adjustments, compare with C10–5. 2 Rebuilding.

Repair Guide for the Film Magazine

Fault	Possible Causes
M1 Scratches on the film.	1 Focal-plane rollers defective. 2 Film passes over the focal plane with insufficient freedom.
M2 Light leakage.	1 Defective light-traps (P.12 12253, 12382, 12259, 12260) for magazine safety-slide (P.12 12519). 2 Light leaks in D-shaped track between spool-holder cover and magazine. 3 Light leaks between magazine body (P.12 20709) and front plate (P.12 12551). 4 Pinhole defects in die-casted magazine body.
M3 Magazine loose or stuck.	1 Loose locking-pin located in the center of plate (P.12 30223). 2 Defective locking-bar (P.11 12357).
M4 Magazine does not lock on the camera body.	1 Locking-bar (P.12 12251) does not function properly. 2 Catch (P.12 12257) works stiffly and obstructs locking-bar (P.12 12251).
M5 Magazine has play after being locked to camera body.	1 Locking-bar (P.12 12251) fits in too deeply upon double-hooked top-clasp (P.6 12178). 2 Play in slots fitting over bottom hooks (P.1 12184).
M6 Movement from winding-knob does not advance the film.	1 Gear-wheel (P.12 12216) does not spring back (compare C15–2). 2 Spline-couplings (between P.11 12552 and P.12 12209) defective or not in alignment. 3 Sheared pin in spline-coupling (P.11 12552).
M7 Wrong film spacing (has the customer checked that magazine has been started at numeral 1?).	1 Defective number-spacing arm (P.12 12230). 2 Counter-dial (P.12 12220) loosened from its riveted hub. 3 Defective catch (P.12 12224) for counter-dial (P.12 12220).
M8 Film cannot be wound on loading.	1 Broken coupling-spring (P.12 on 12206). ✓ 2 Film winds obliquely because film guide is missing. 3 Spline-coupling defective, or spline-coupling casing (P.12 in 12209) slips. 4 Pin in spline-coupling (P.11 12552) is sheared off (compare M6–3).

Continued

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Fault	Possible Causes
M9 Red-white signal does not change.	1 Signal (P.12 12235) works stiffly. 2 Spring (P.12 DF-57) not in place.
M10 Counter-dial does not stop at numeral 1.	1 Catch (P.12 12241) does not function. 2 Broken coupling-spring (P.12 VF-27) on center gear-wheel (P.12 12204). 3 Counter-dial (P.12 12220) loosened from its riveted hub (compare M7–2).
M11 Defects in appearance.	1 Magazine body. 2 Magazine front-plate (P.12 12551). 3 Covering.
M12 General overhauling.	1 Adjustments. 2 Rebuilding.

Repair Guide for Lenses

Fault	Possible Causes
L1 Pre-selecting diaphragm-ring does not function.	1 Ball catch does not function.
L2 Focussing-ring works stiffly.	1 Stiffness in screw-threads.
L3 Lens does not fit into camera.	1 Diameter (nominally 56.80 mm) is wrong. 2 Locating-screw on lens is too long.
L4 Lens cannot be locked to the camera.	1 Locating-screw has become loose. 2 Locating-screw wrongly located. 3 Locating-screw is too short.

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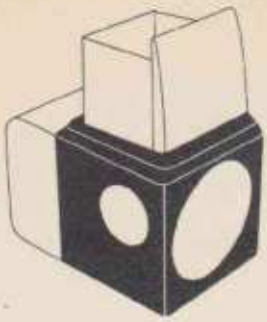
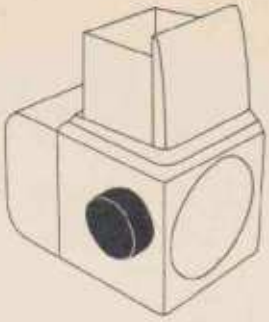
Repair Guide for the Hood

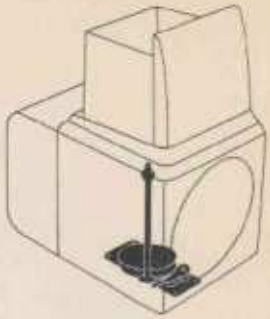
Fault	Possible Causes
H1 Outside hood cover does not rise.	1 Frame (P.10 20669) twisted. 2 Hood assembly not fully home in its tracks. 3 Jointed (P.10 12538) arms of wrong length.
H2 Cover opens too easily.	1 Button-catch (P.10 20613) does not grip sufficiently. 2 Spring (P.10 12428) is defective.
H3 Magnifying lens does not rise.	1 Magnifying lens is loose. 2 Spring (P.10 VF-57) is defective.
H4 Magnifying lens rises when hood is opened.	1 Defect in button-catch.
H5 Magnifying lens rises too high.	1 Wire strut (P.10 12546) too long or loose.
H6 Defects in appearance.	1 Outside hood cover (P.10 12548). 2 Side and back panels. 3 Covering (P.10 12148, 12149).



Camera. case. 1



winding Knob Mech. 2

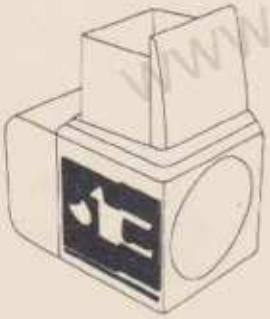


Shutter Mech. 3

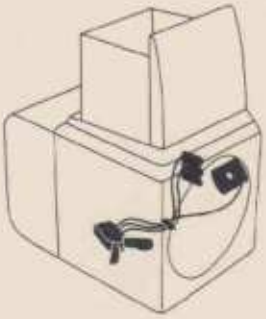
Delay-action Mech. 4

Curtains 5

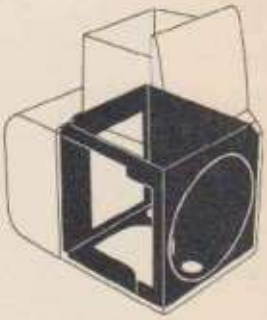
Mirror, Ground Glass 6



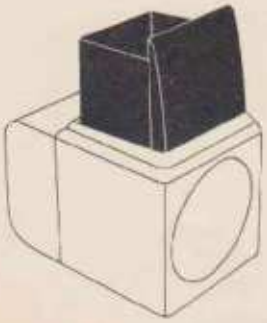
Side Plate 7



Sync. unit 8

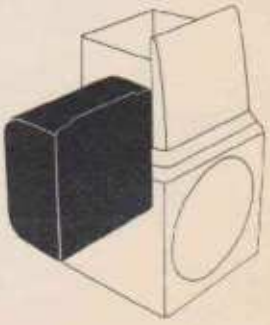


Camera. Housing 9



Hood 10

Mag. Roll-holder 11



Magazine 12

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12184 (2)
12191
12365 (2)
12751
Nit–2.5×3.5 (2)
Ry–1.9 (2)

20701
20564
20565
20566
20567
20568
20569
12192
12417 (2)

30216 – 18.45
30248
20542 (2)
20571
12176
12177
12341
FS–2×7 (4)
FS–2.3×5 (3)
FS–2.3×6 (3)
SCS–3×3.4 (2)

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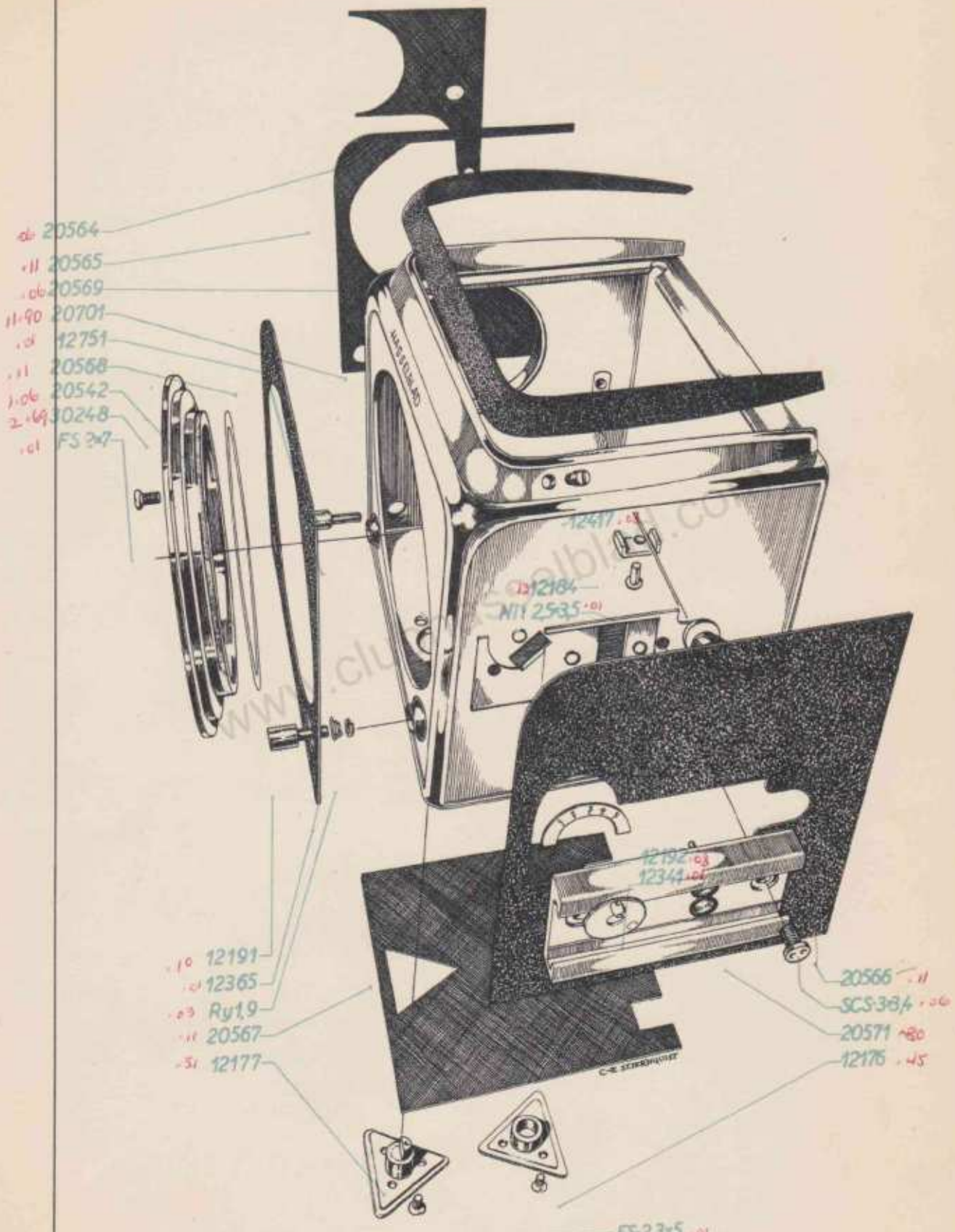

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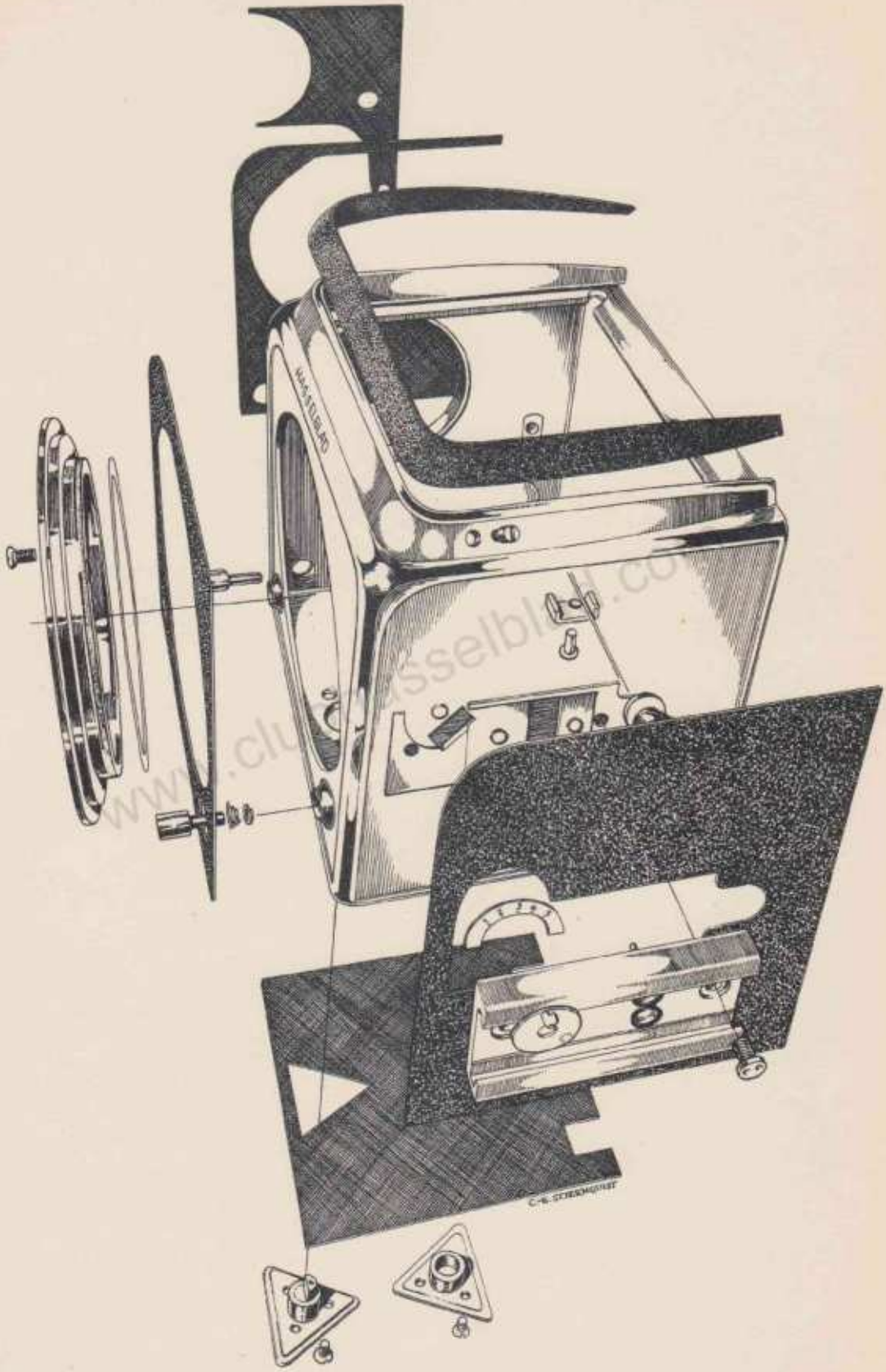

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1953-IV

	20522		
	20688		
	12121		
	12122		
	12124		
	12126		
	12130		
	12132		40106 — 4.89
	12135		20520 —
20521	12138		12166 —
12136	12425 — 2.04		12339 —
12424	12434		SCS—3×5.1 —
TF—44	CS—1.7×3		
	FS—1.7×7		
	FS—1.7×10	(3)	
	SCS—1.7×3.2	(4)	

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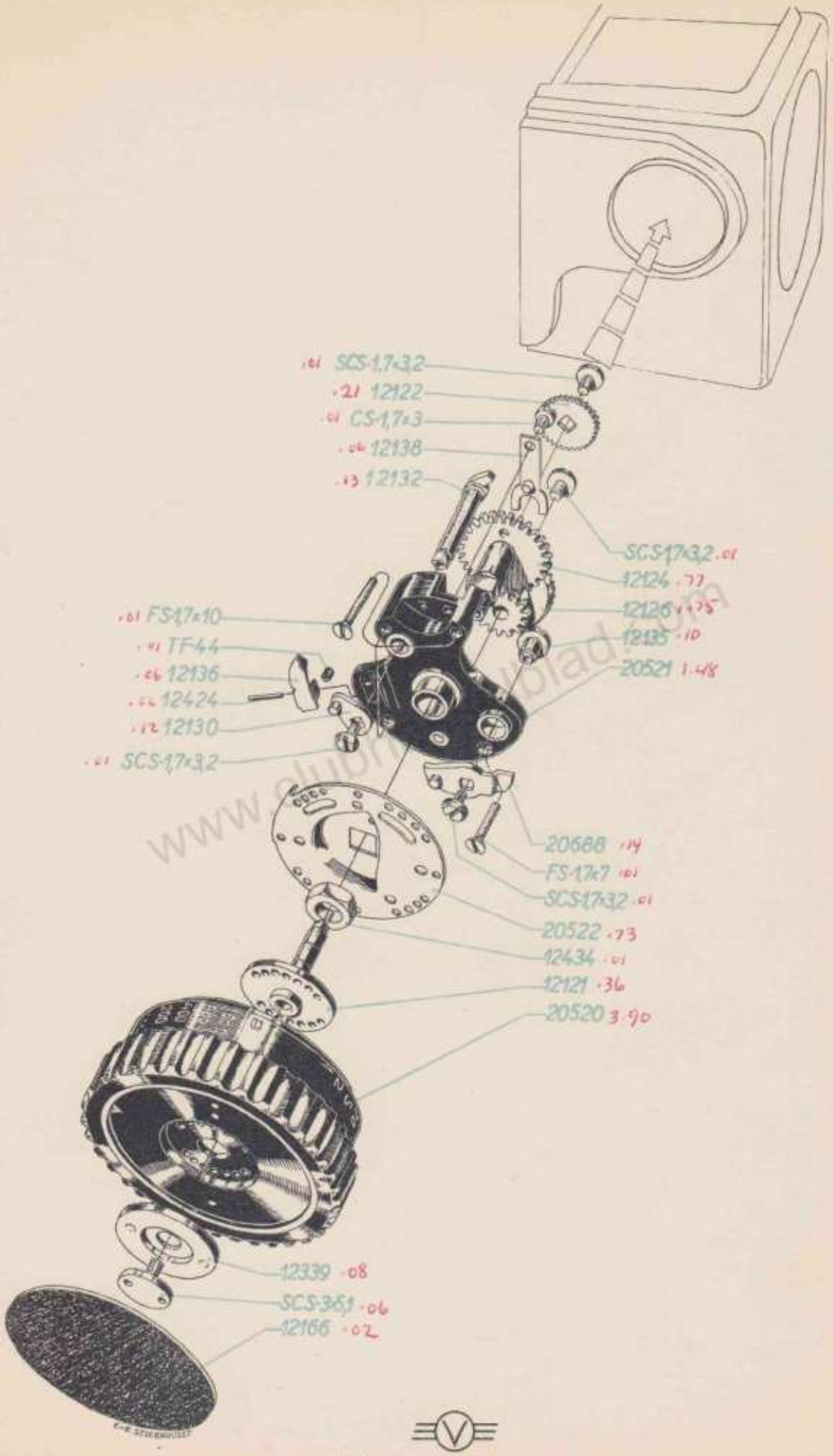

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12046
12048
12049
12050
D–2.55×4.5×0.3
S–0.8×4
S–1×4.5 (2)
TF–53

20500
20502
20508 - 1.68
20526
20539
12044
12045
12051
12615×A
12640
D–2.25×4×0.2 (2)
D–2.55×4.5×0.05
D–3.55×6.5×A
D–4.05×6.5×0.2
D–4.6×10×0.05
Ry–1.5 (2)

30231 - 1995
FS–1.7×2.5 (5)

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20510
20513
12057
12059
12066
12069
12073
12076
12079
12084 (4)
12655
12657
12717
AS–104
AS–108
CS–1.2×1.8 (3)
D–2.1×3.5×0.05
DF–56
DF–69
SCS–1.2×2

20509 4.61
CS–1.7×3
D–1.75×3.5×A

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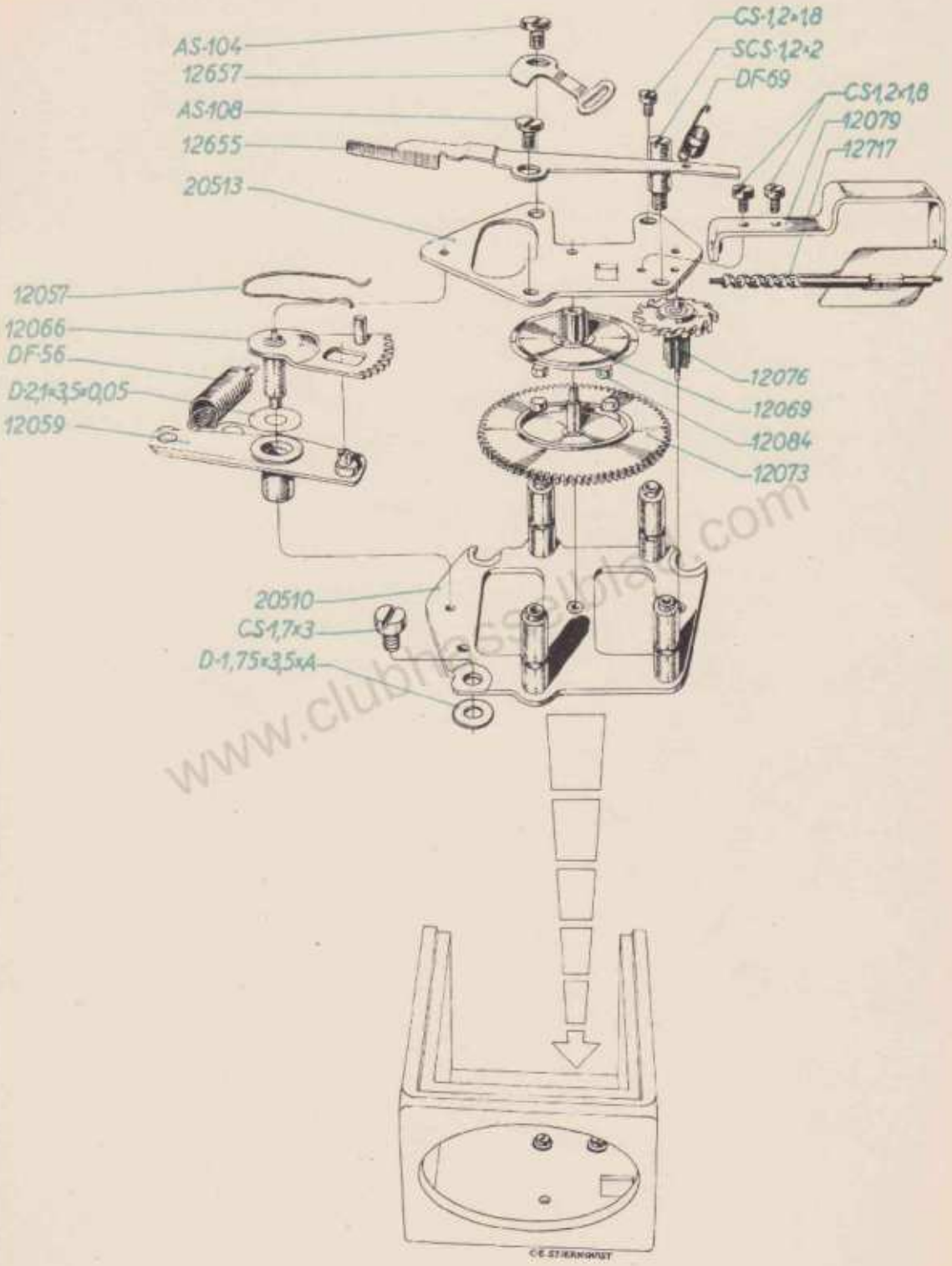

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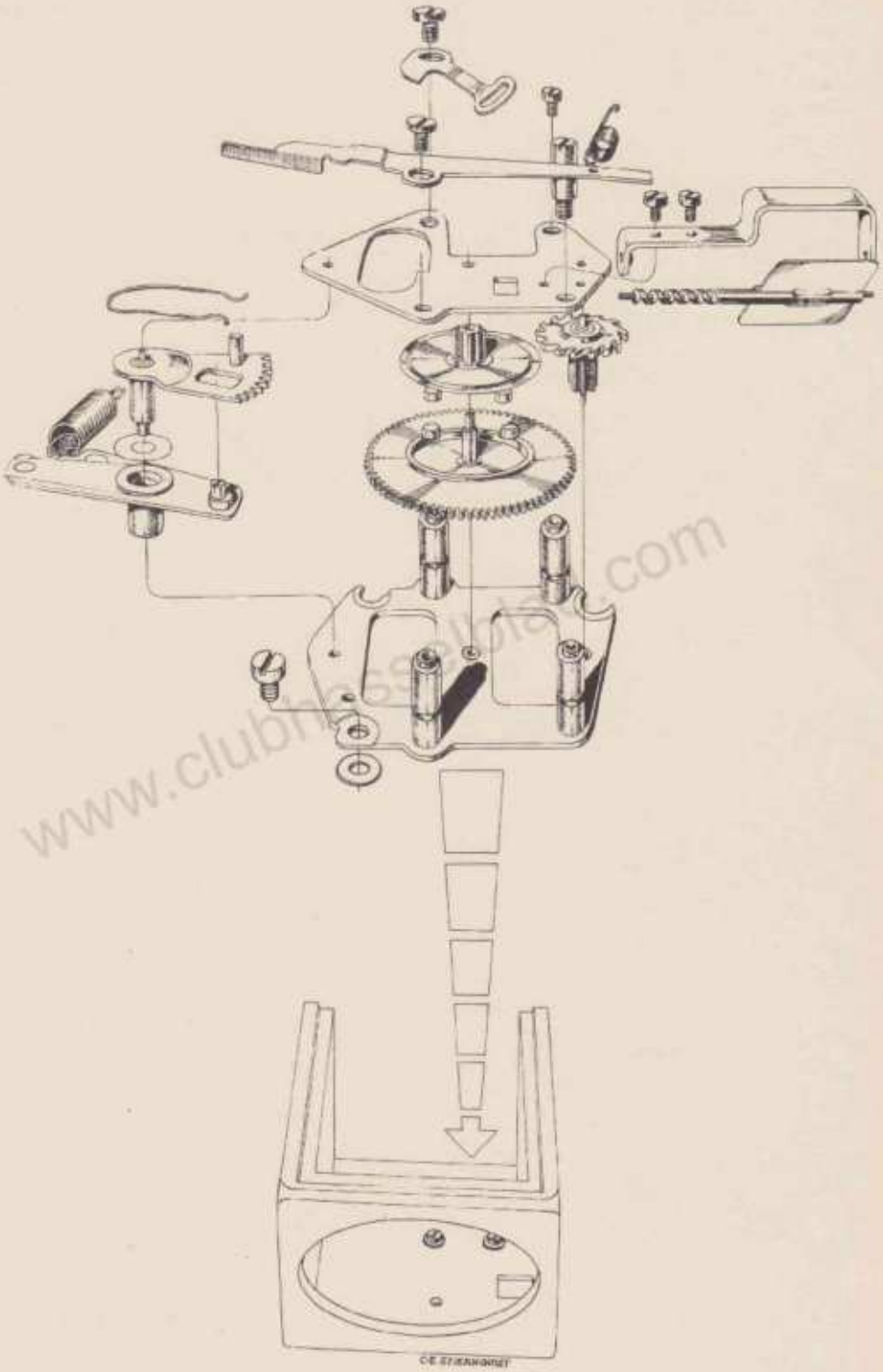

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12156	
12158	(2)
(12367 1.8×0.13×175)	
(12367 1.8×0.14×300)	
12605	(2)
12606	(2)
D–2.55×4.5×0.1	(2)
D–2.55×10.8×A	(2)
D–5.1×7×2.3	(2)
Ry–1.95	(2)

20537		
20538		
12155 – 4-58		
12182		
12183		
12188		(2)
12189		(2)
12347	ø 4.5 mm	(2)
12348	ø 4.5 mm	(4)
12350		(2)
12564		
12565		
12644		(2)
12646		(4)
12647		(2)
12734	ø 2 mm	(4)
12735	ø 2 mm	(2)
FS–1.7×2		(2)
FS–1.7×2.5		(2)
FS–1.7×5		(2)

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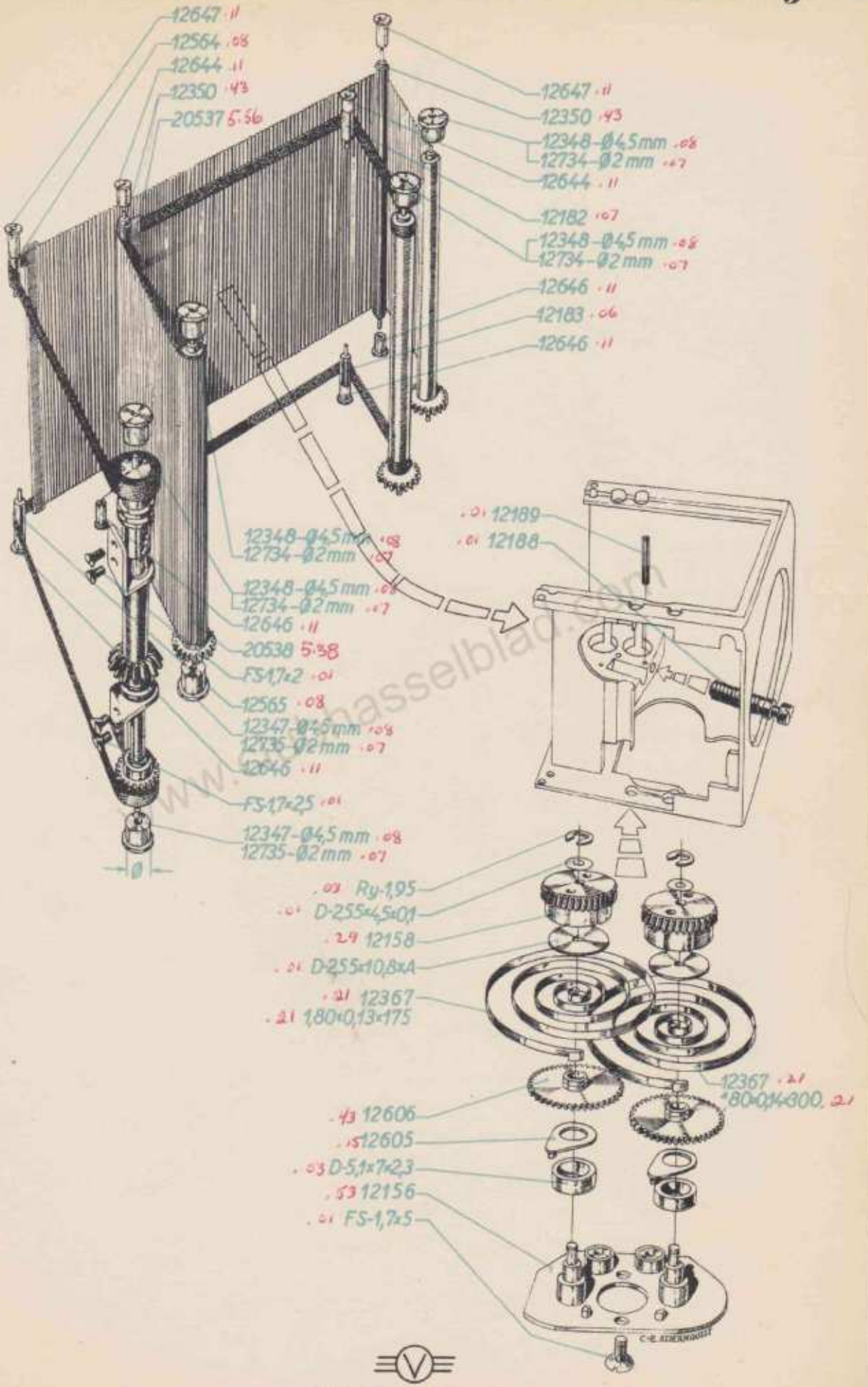

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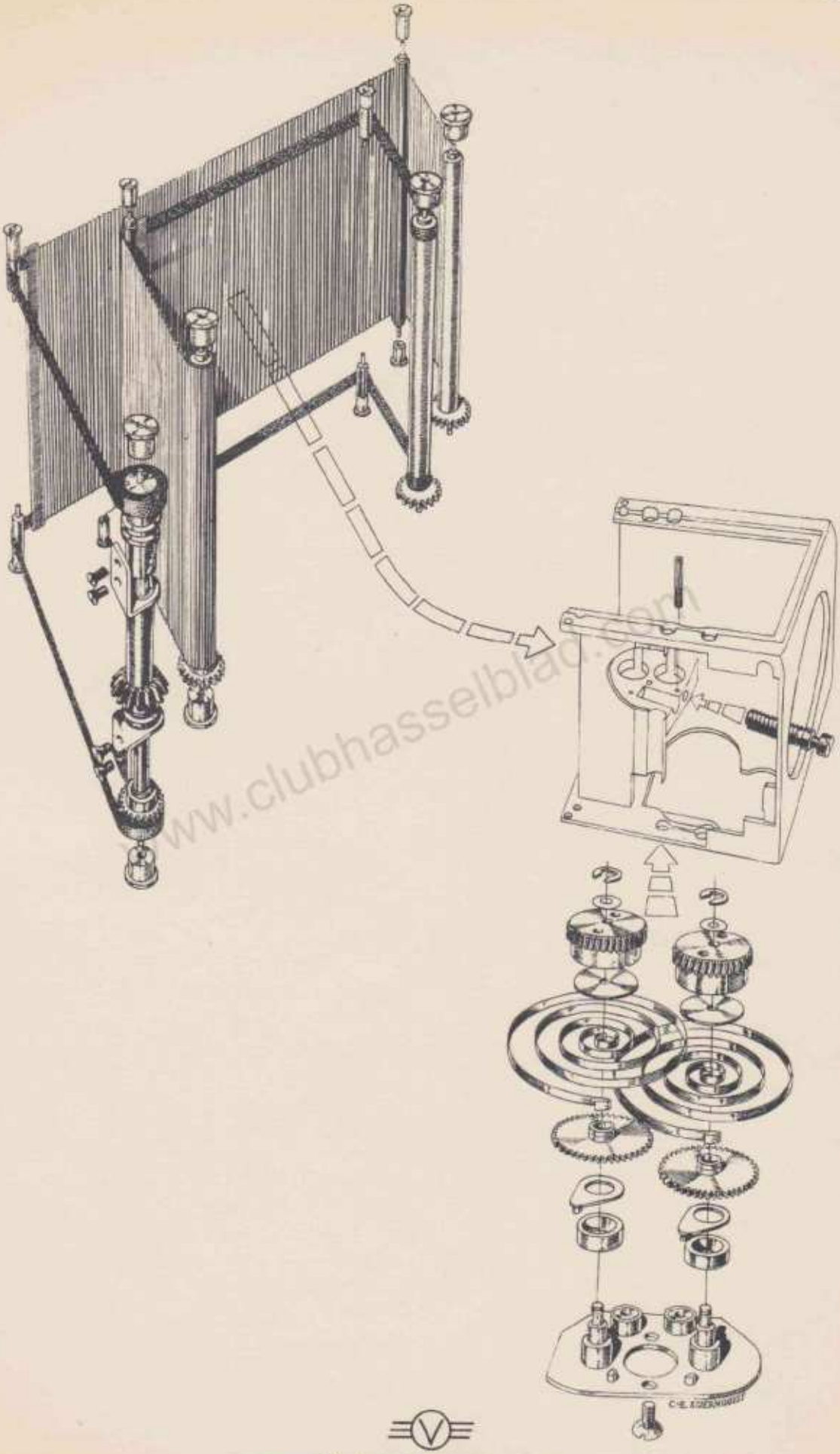

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20530
12150
12598
12599
B6M–1.7
VF–16
VF–42
→ 20529 1·58
→ 20545
→ 20548

20572
20651
12187
12630
12652
12761
Ry–1
→ 20653 2·65

40103
12366
→ 20703 1·86
12160
12178
12196
12360
12370 (4)
12420
12499
CS–1.2×3 (4)
CS–1.7×3.5
FS–1.2×2 (3)
FS–1.7×3 (4)
FS–1.7×3.5 (3)

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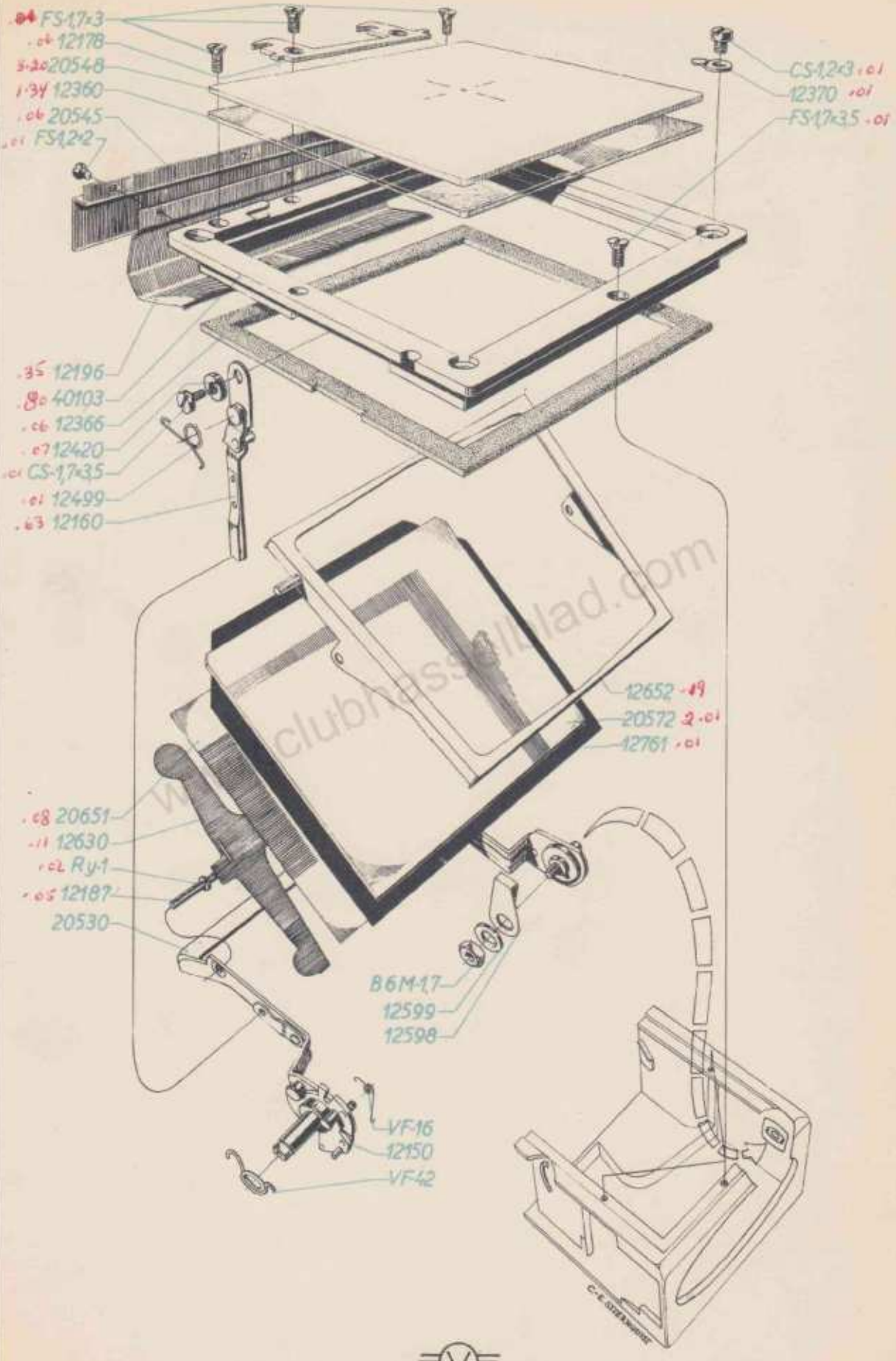
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.06 12178
3·20 20548
1·34 12360
.06 20545
.01 FS-1,2×2
CS-1,2×3 .01
12370 .01
FS-1,7×3,5 .01
.35 12196
.80 40103
.06 12366
.07 12420
.01 CS-1,7×3,5
.01 12499
.63 12160
12652 .49
20572 2 .01
12761 .01
.08 20651
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.02 Ry-1
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VF-16
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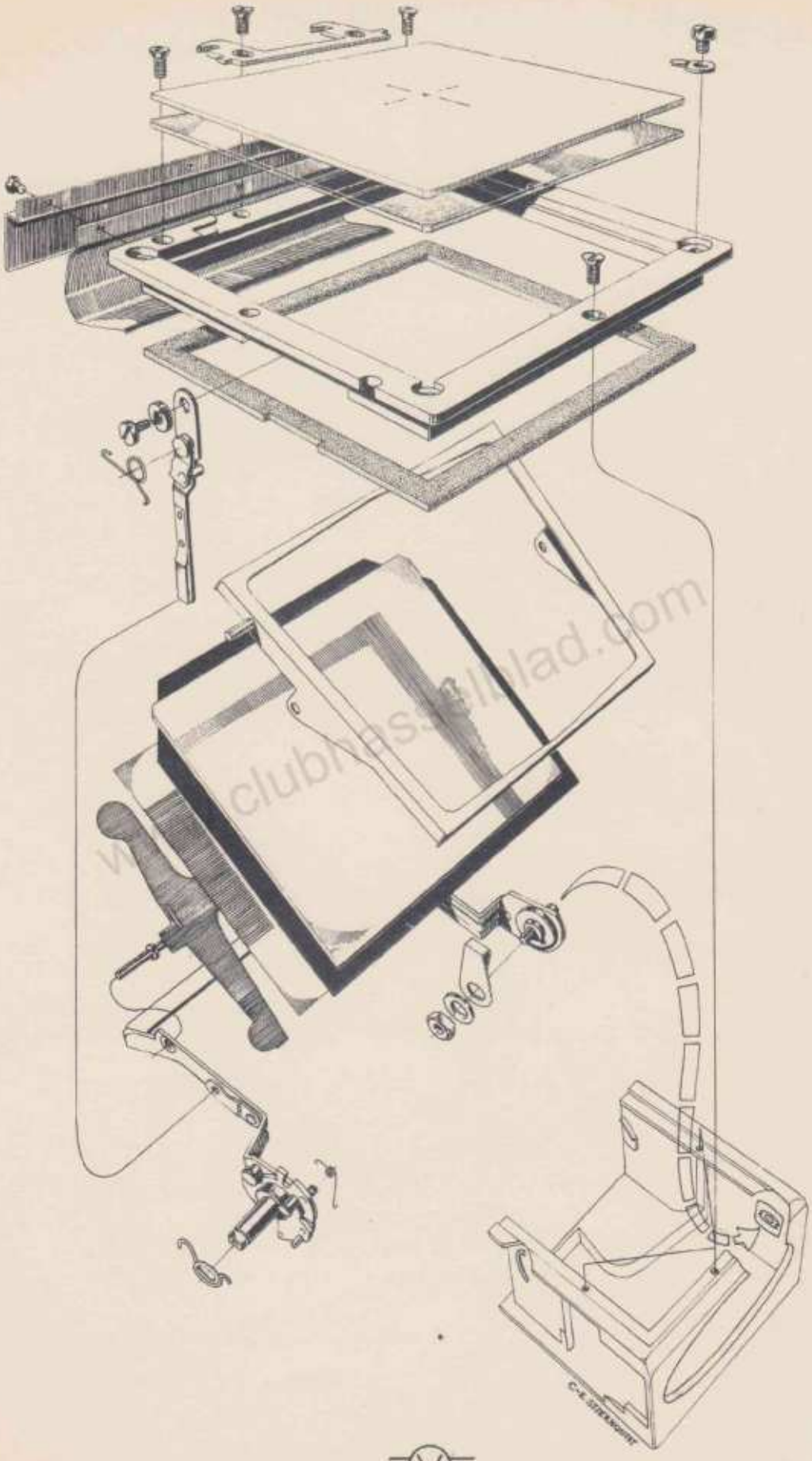
VF-42



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12092	30204	
12094	12087	
12095	12090	
12096	12091 1·65	
12098	12097	
12110	12103	
12364	12119	
FS–1.7×4 (2)	12120	
	12336	
	AS–103	30203 5·66
	CS–1.7×2	20515
	CS–1.7×3.5	12691
	DF–53	12695
	DF–72	AS–104
	SCS–2×4	CS–1.2×1.5
	SCS–2.3×3	FB–2
	SCS–2.3×3v	CS–1.7×1.6
	VF–30	SCS–1.7×2.7 (2)
	VF–40	SCS–1.7×3.5 (2)
		SCS–2×3.8
		VF–41

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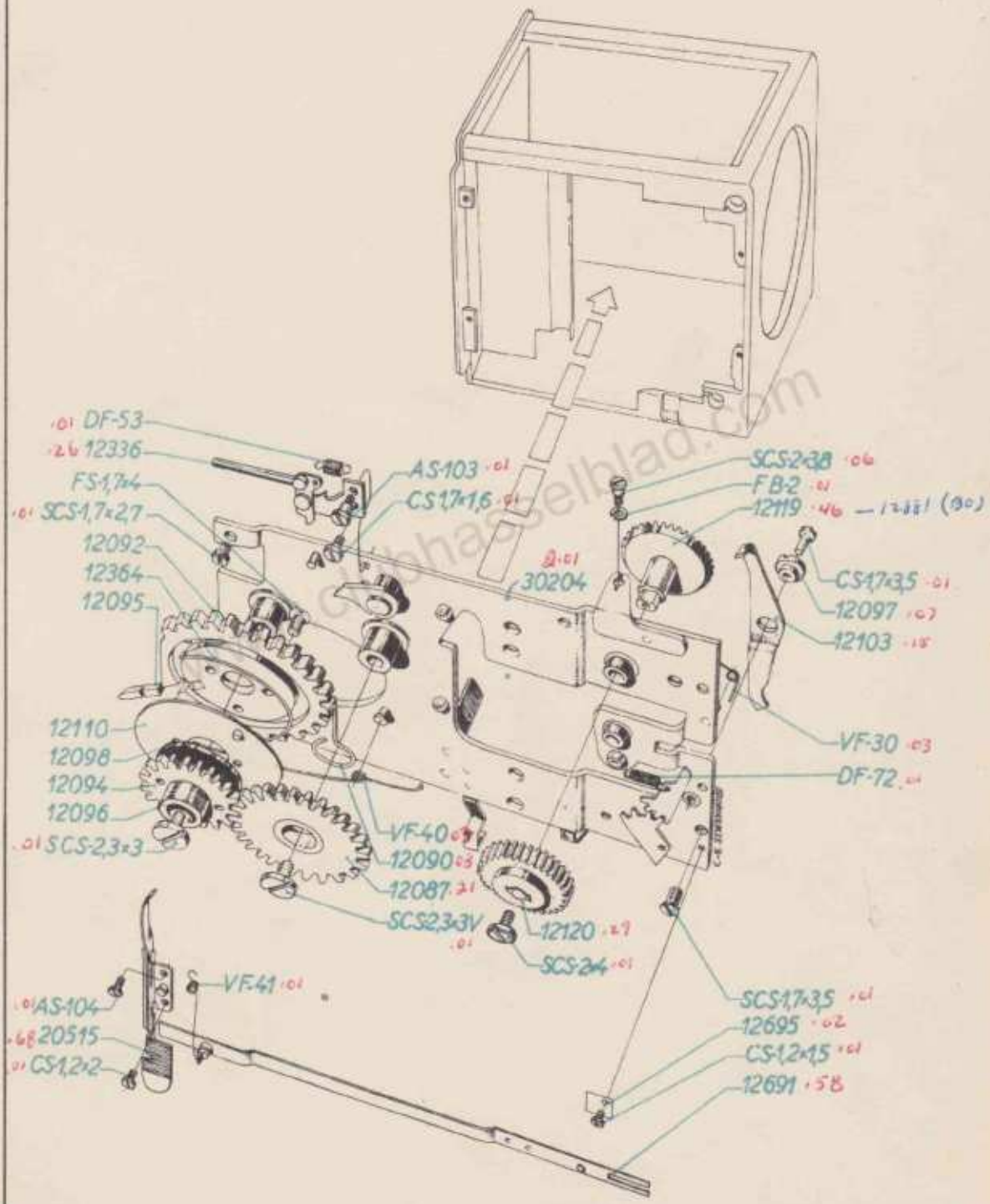

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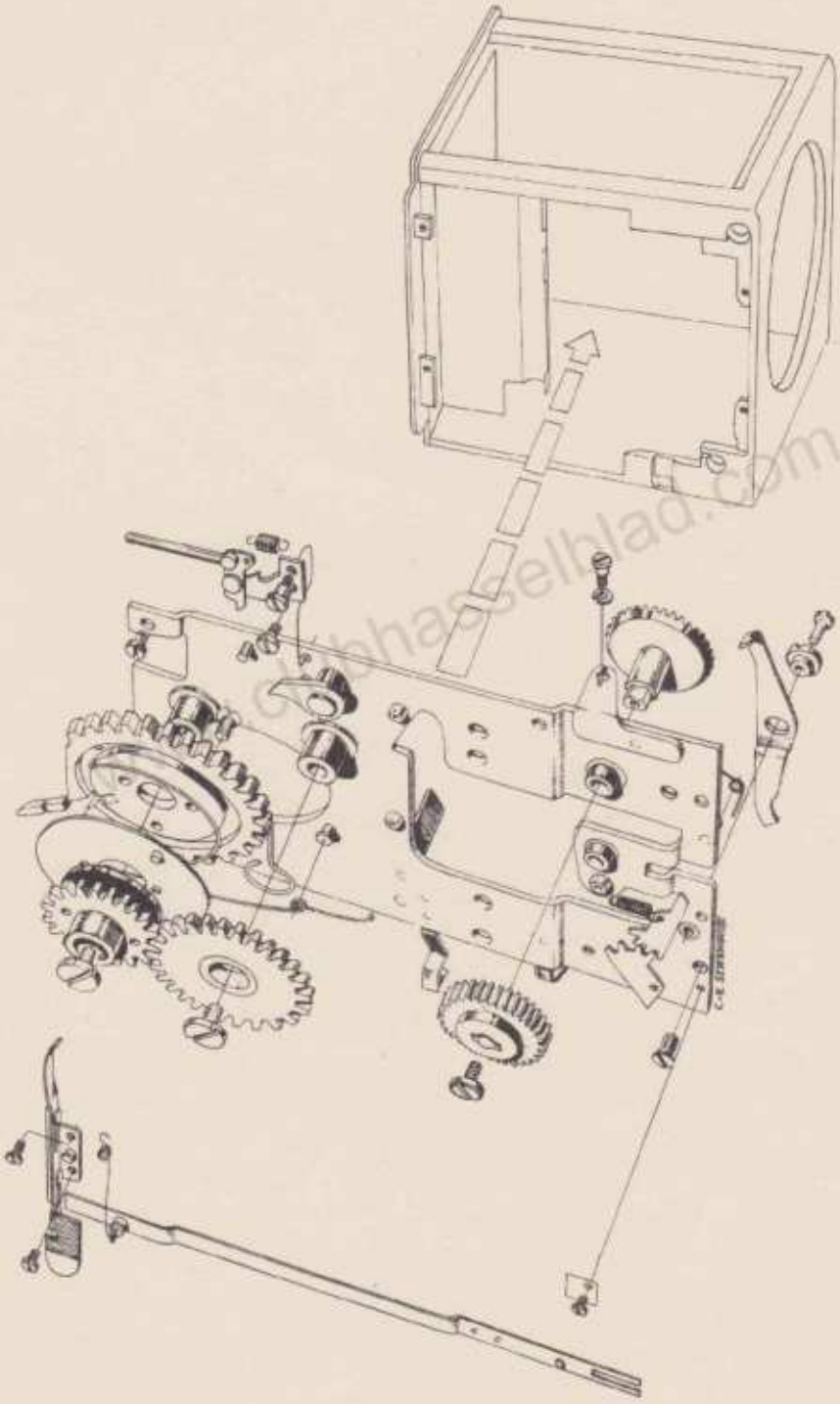

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30243
20517
20534
12331
12353 (2)

20540 1-34
12197
12343
12453
CS–1.7×3.5 (2)
CS–1.7×7
CS–1.7×10

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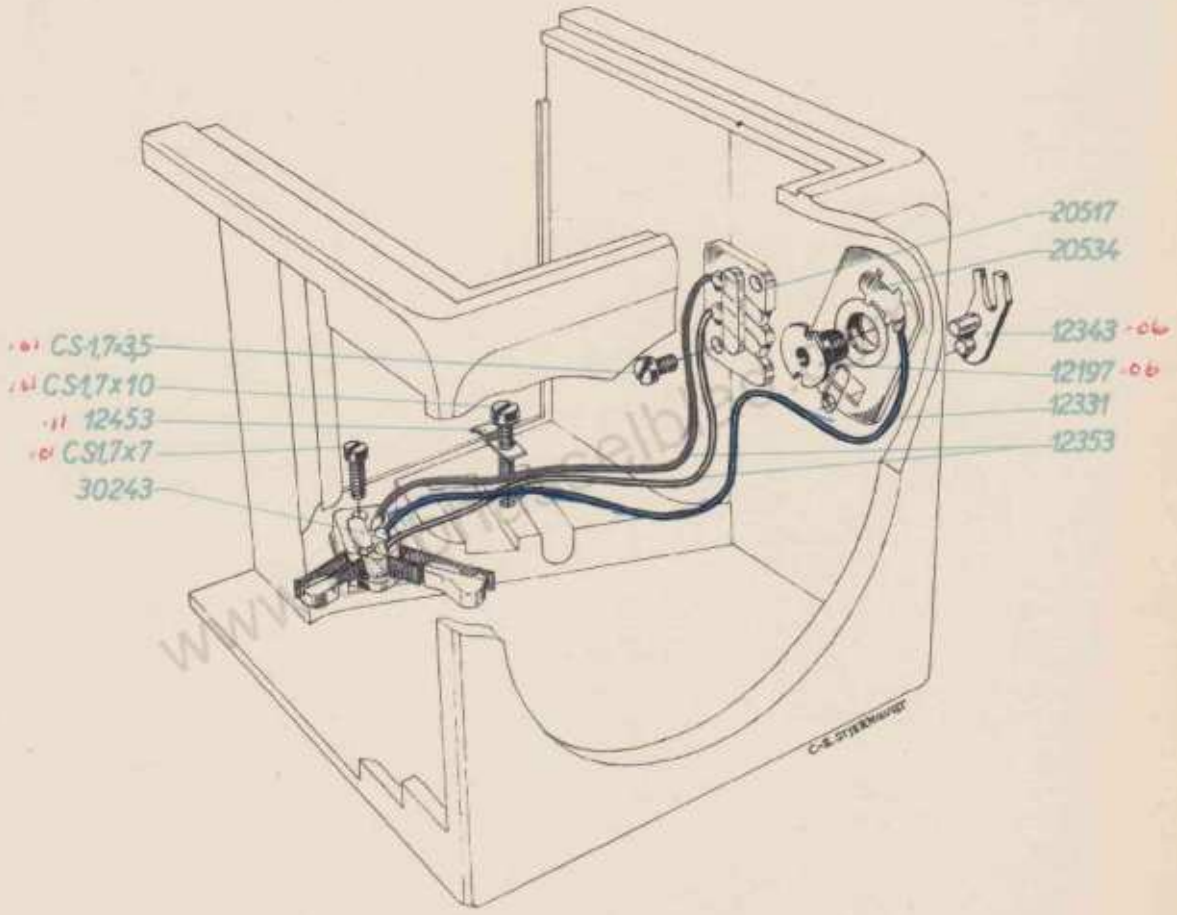

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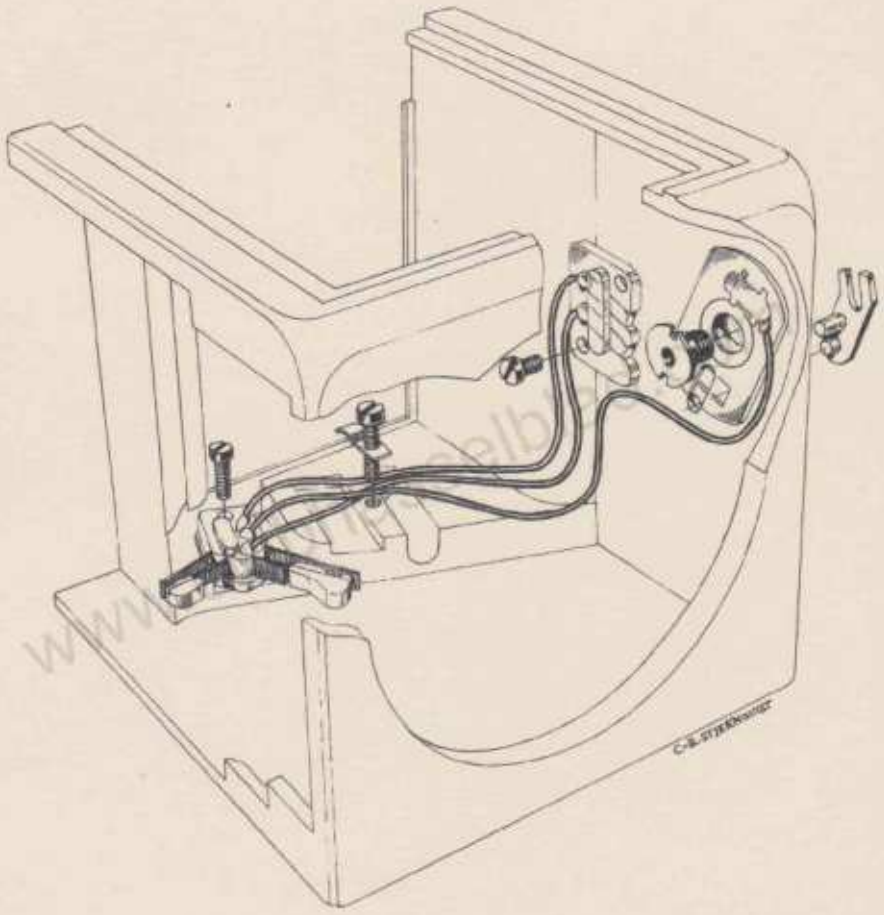

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40101
20518
12686
CS–1.2×2 (2)
CS–1.7×5
CS–1.7×10
FS–1.7×3.5 (8)

40102
40121
40124
30251
30252
12162
12167
12645
12653
AT–280 (2)
CS–1.7×3.5 (2)
D–2.28×4×0.4
FS–1.7×2.5
KFS–1.7×4
Ry–1.9
TF–39
VF–45

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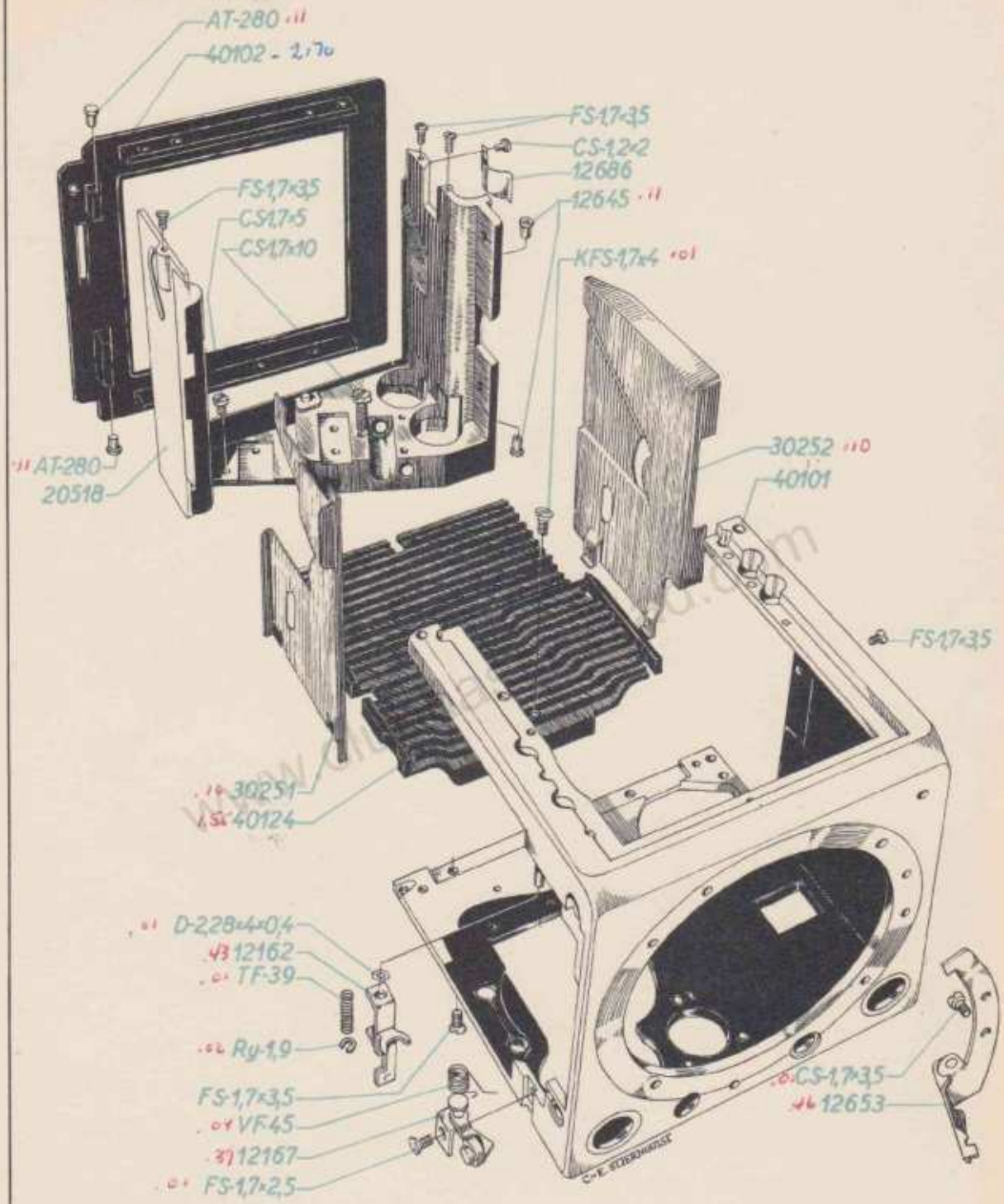
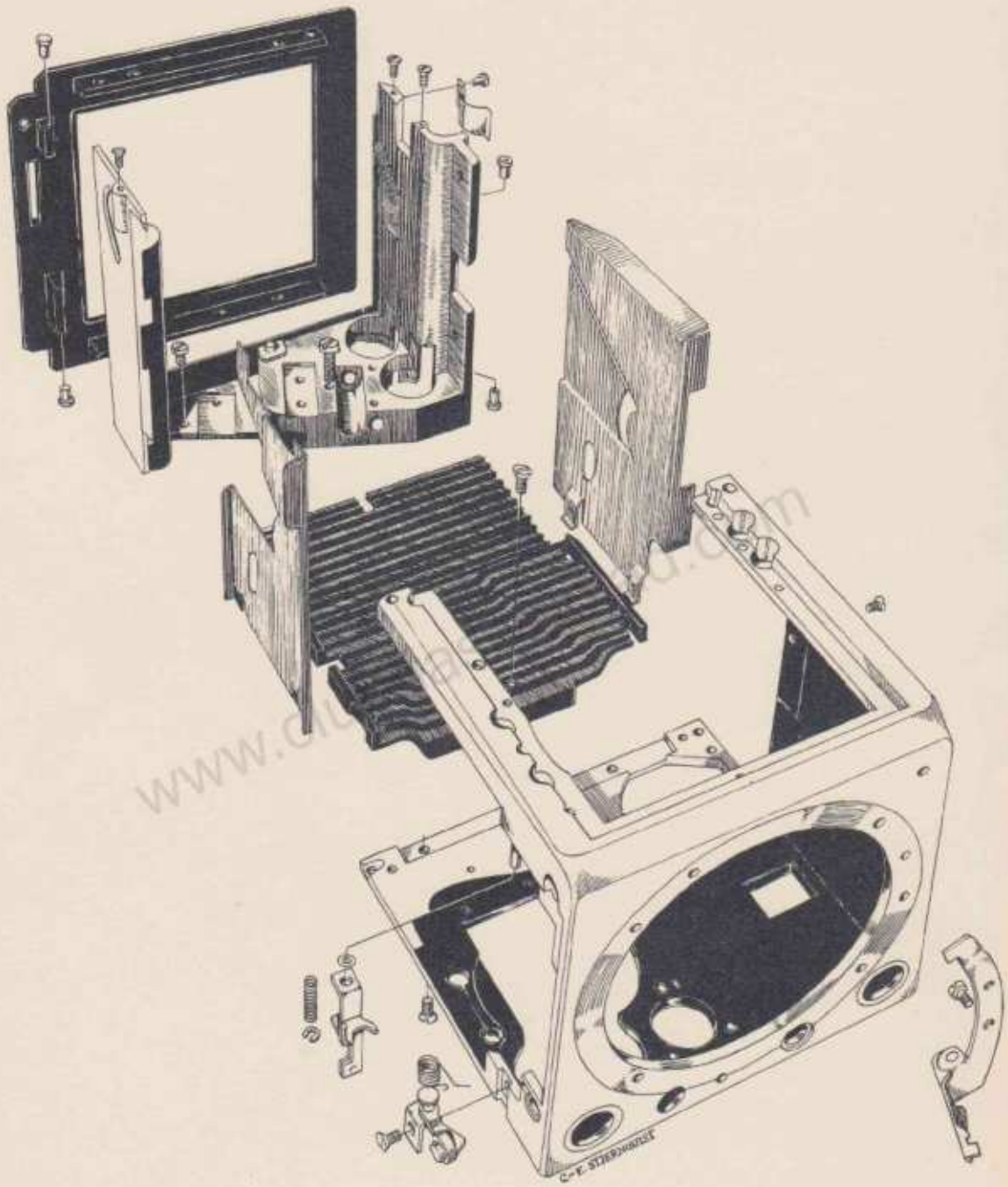

AT-280 .11
40102 - 2:70
FS 1,7×3,5
CS-1,2×2
12686
12645 .11
FS 1,7×3,5
CS 1,7×5
CS-1,7×10
KFS-1,7×4 .01
.11 AT-280
20518
30252 .10
40101
FS-1,7×3,5
.19 30251
.52 40124
.01 D-2,28×4×0,4
.43 12162
.01 TF-39
.02 Ry-1,9
FS-1,7×3,5
.04 VF-45
.37 12167
.01 FS-1,7×2,5
.06 CS-1,7×3,5
.46 12653



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- 20669
- 12537 (2)
- 12538 (2)
- AT–247 (4)

→ 30210 4.25

- 20613
- 12426
- 12428
- 12432
- 12548
- AT–248

→ 20582 2.76

- 12527
- 12532
- 12547
- VF–57

→ 20523 .55

- 12148
- 12149
- 12546
- FS–1.7×2.5 (2)

→ 20575 4.99

- 20524
- 20616
- 20617
- 12139 1.44
- 12534
- 12535
- AT–245 (2)
- CP–1×44 (2)
- CP–1.1×61.3
- CP–1.25×62.25
- Ry–0.7 (2)
- VF–32 (2)
- VF–34
- VF–35
- VF–36

- 12140
- 12147
- 12363

→ 40108 15.39

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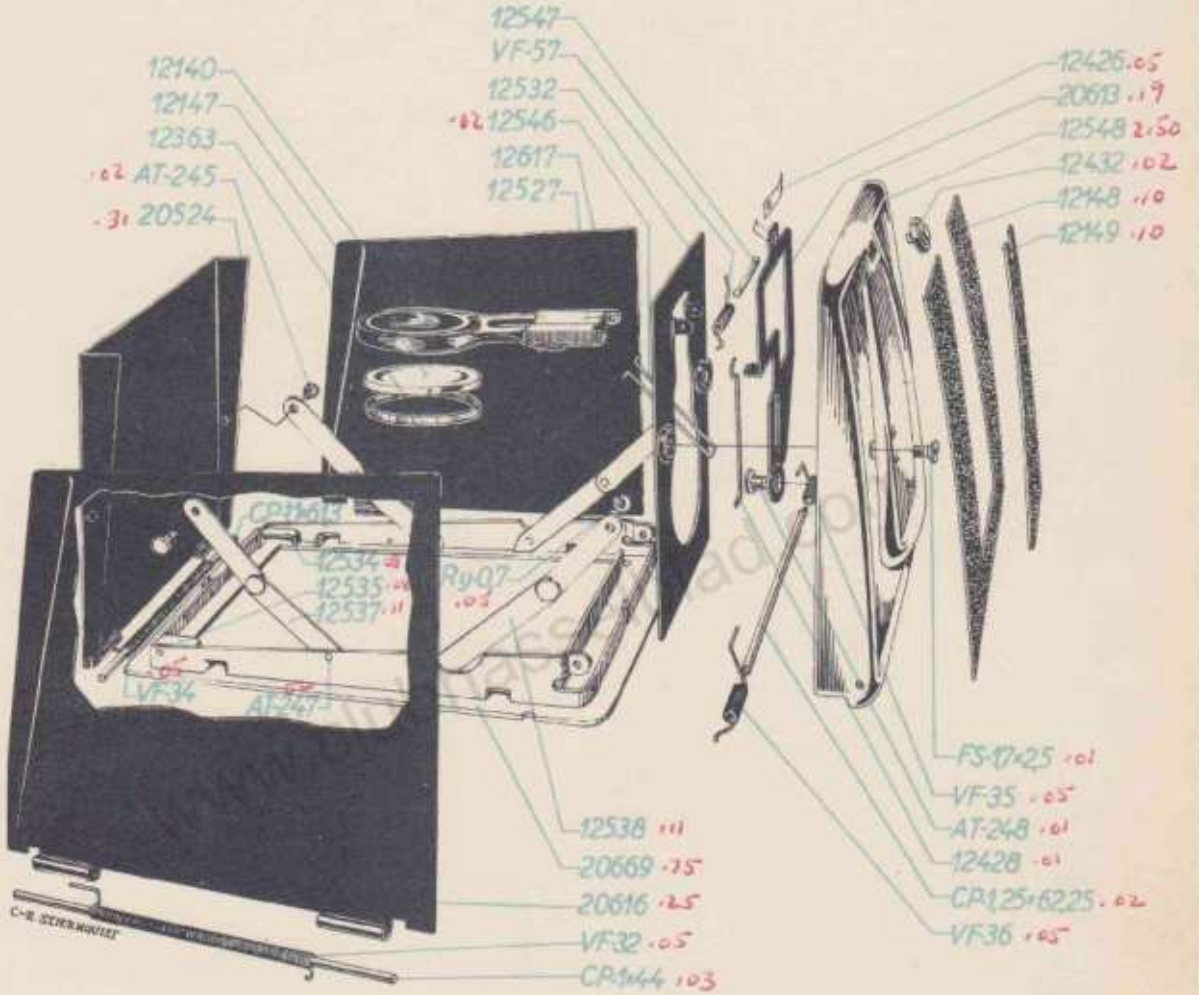
12547
VF-57
12532
·82 12546
12617
12527
12140
12147
12363
·02 AT-245
·31 20524
12426·05
20613 ·19
12548 2·50
12432 ·02
12148 ·10
12149 ·10
CP1·6·12
12534·21
12535·04
12537·11
Ry·07
·02
VF-34
AT-247
FS-17·25 ·01
VF-35 ·05
AT-248 ·01
12428 ·01
CP1,25·62,25 ·02
VF-36 ·05
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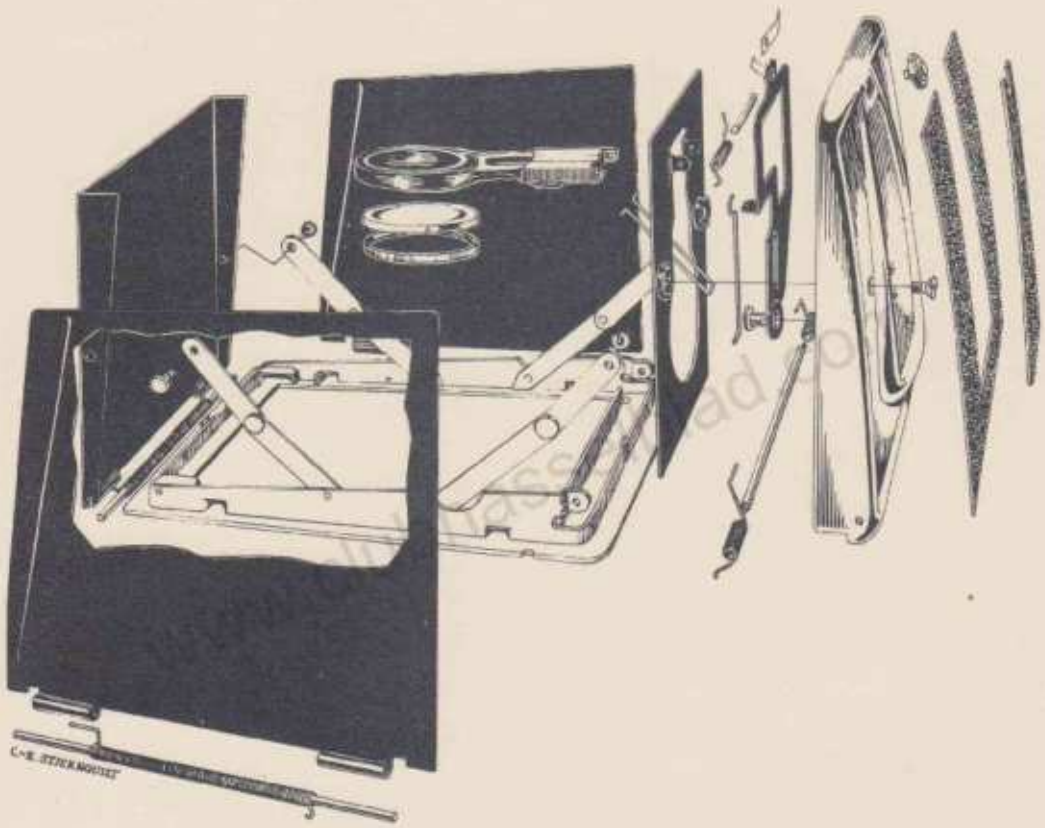
20669 ·75
20616 ·25
VF-32 ·05
CP1·44 ·03
C-E. SIEKMANIS



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	20554		
12237	20702 6.68		
12289			
12267			
12288	12264 1.43		
SCS–1.7×2	12268		
	12269		
	12272		
	12273		
	12274		
	12307		
	12310		
	12311		
	12357		
	12536		
20555	12540		
20618	12543 1.79		
CS–1.7×2 (2)			
12279			
12282	12579 2.21		
12299	12629		
12552	AS–107	(4)	
	CS–1.2×3	(6)	
	D–2.4×6×A		
	D–2.4×6×0.25	(2)	
	D–2.4×10×0.5	(2)	
	D–2.55×4.5×A		
	D–6.5×9×0.5		
	FS–1.2×3	(4)	
	KFS–1.7×3		
	KFS–1.7×4	(3)	
	Ry–1		
	Ry–4		
	SCS–1.2×2.5	(3)	

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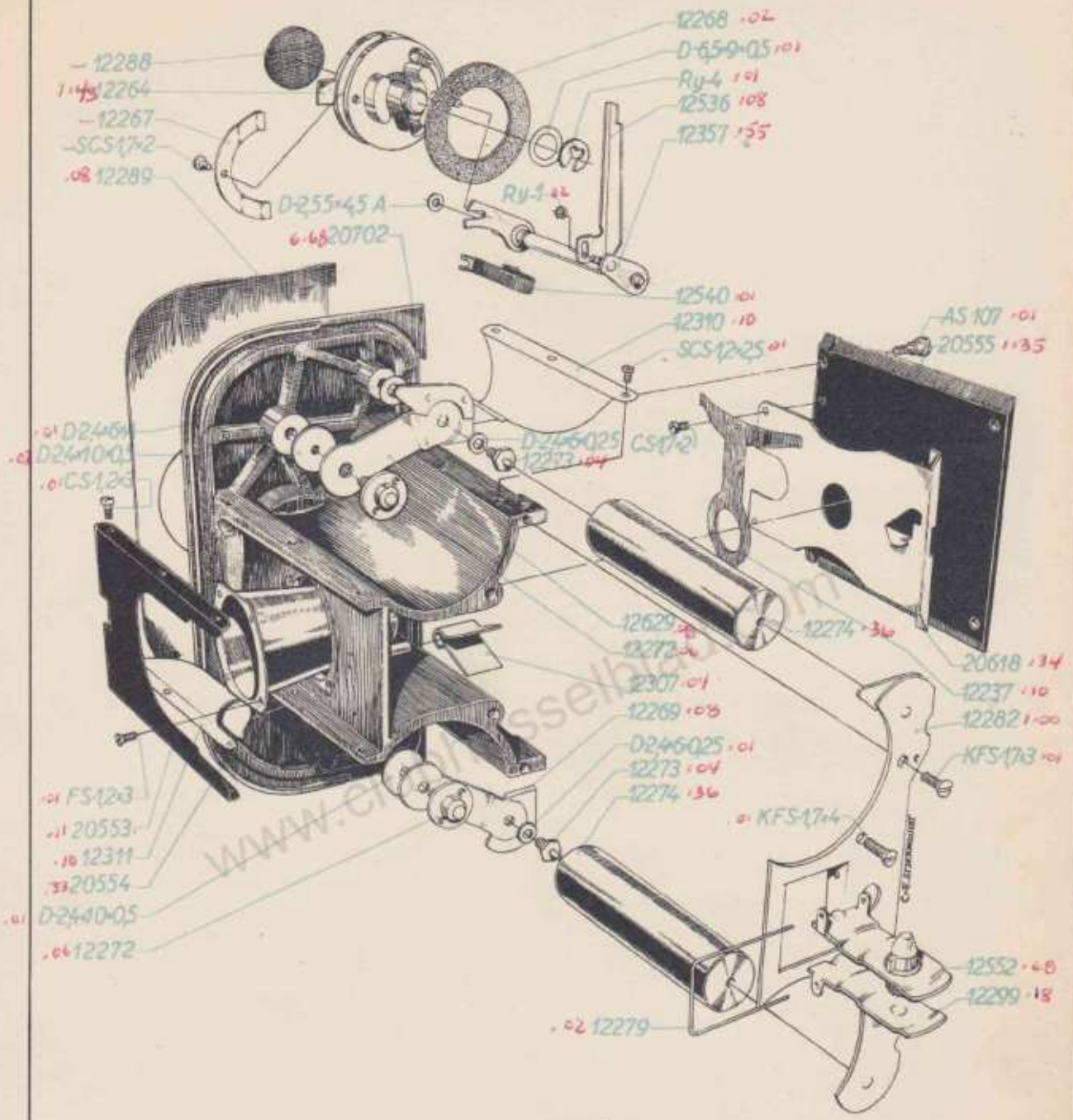

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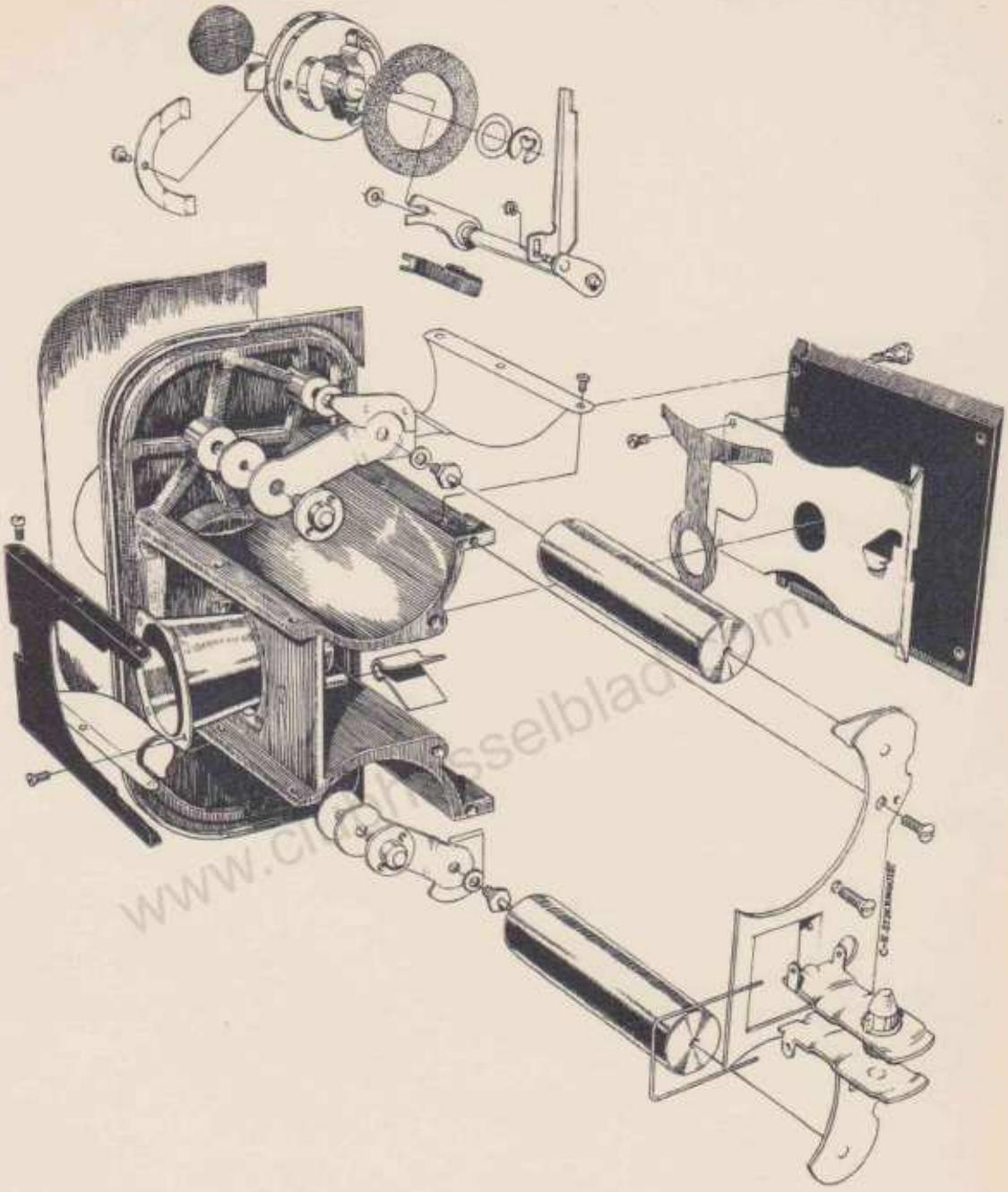

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30214
12770
AS–97
B6M–1.7

30213
20619 75
12247
12248
12250
12584
D–3.5×6.5×0.2
SCS–1.7×2.8

12203
12204
12205
D–4.5×7×A
VF–27

DF–59
DF–68

30212
12290
12291
12489
12492

12215
12216
12219

40113 5.41
30223
20600
20709
12200

12206
12209
12214 66
12219 (4)
12220
12224 –
12226

12230 65
12235
12241
12244
12246
12251
12253
12257
12258
12259

12260
12262 (2)
12280 4.23
12283
12288
12308
12369
12382 (4)

12519
12542 3.79
12551

40114

AS–94
AS–96
AS–99
CS–1.7×3 (2)
CS–1.7×4
DF–56
DF–57
DF–58
DF–59
DF–64
DF–66
FS–1.2×1.5 (4)
FS–1.7×3.5 (4)
FS–1.7×4 (11)
FS–1.7×6
Ry–1
SCS–2.3×3.5
VF–52

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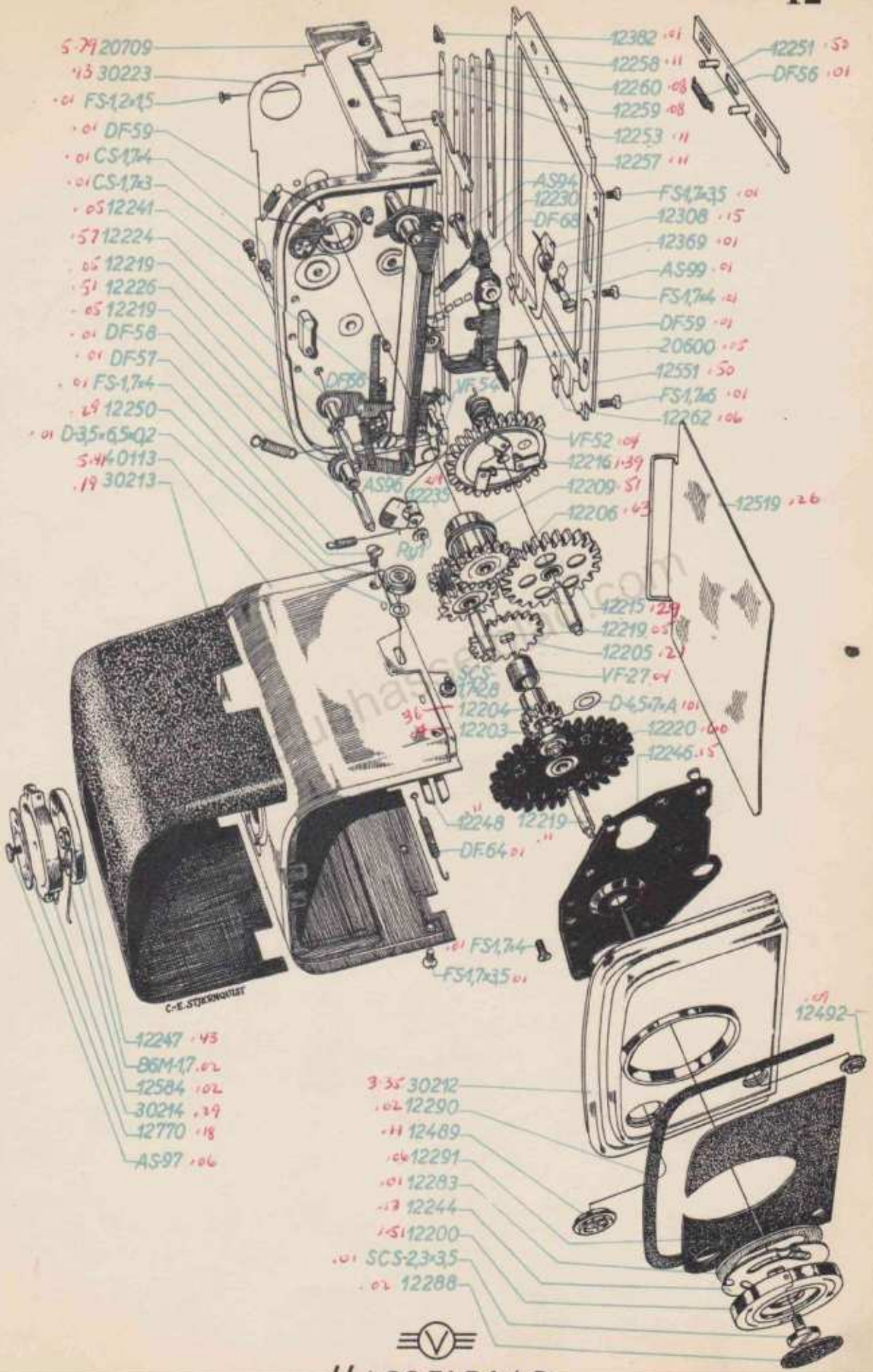
5·74 20709
·43 30223
·01 FS-1,2×1,5
·01 DF-59
·01 CS-1,7×4
·01 CS-1,7×3
·05 12241
·57 12224
·05 12219
·51 12226
·05 12219
·01 DF-58
·01 DF-57
·01 FS-1,7×4
·69 12250
·01 D-3,5×6,5×0,2
5·41 40113
·19 30213
12382 ·01
12258 ·11
12260 ·08
12259 ·08
12253 ·11
12257 ·11
12251 ·52
DF-56 ·01
AS-94
12230
DF-68
FS-1,7×3,5 ·01
12308 ·15
12369 ·01
AS-99 ·01
FS-1,7×4 ·01
DF-59 ·01
20600 ·05
12551 ·50
FS-1,7×6 ·01
12262 ·06
DF-66
VF-54
VF-52 ·04
12216 ·39
12209 ·51
12206 ·63
AS-96 ·01
12235
12519 ·26
Rot
12215 ·29
12219 ·05
12205 ·21
SCS-1,7×8
VF-27 ·04
D-4,5×7×A ·01
36
12204
12203
12220 ·00
12246 ·15
·11
12248
12219
DF-64 ·01
·01 FS-1,7×4
FS-1,7×3,5 ·01
·01
12492
12247 ·43
86M-1,7 ·02
12584 ·02
30214 ·39
12770 ·18
AS-97 ·06
3·35 30212
·02 12290
·11 12489
·06 12291
·01 12283
·13 12244
·51 12200
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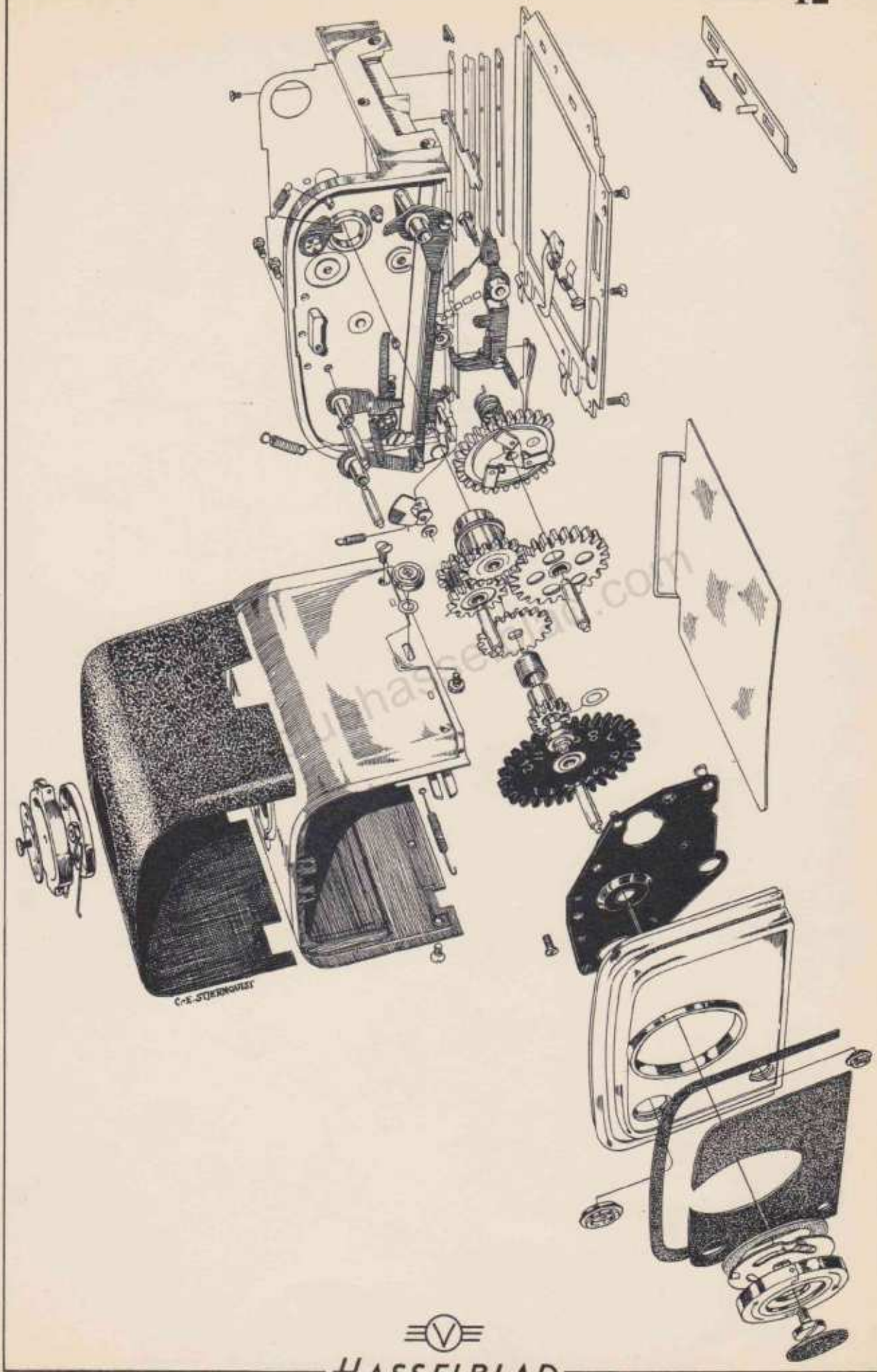
·02 12288
C-E. STJERNQUIST



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Quantity Anzahl Quantité Cantidad	Part No. Teil Nr. No. de la partie Nº de la parte	Remarks Anmerkungen Notes Notas

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Exchanged 7/31/53

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12703	20680		
	12057		
	12079		
	12084	(4)	
	12655		
	12704		
	12706		
	12710		
	12714		
	12717		30250
	12718		CS–1.7×3
	12719		D–1.75×3.5×A
	12720		
	AS–108	(2)	
	CS–1.2×1.8	(3)	
	D–2.1×3.5×0.05		
	DF–69		
	DF–70		
	SCS–1.2×2		

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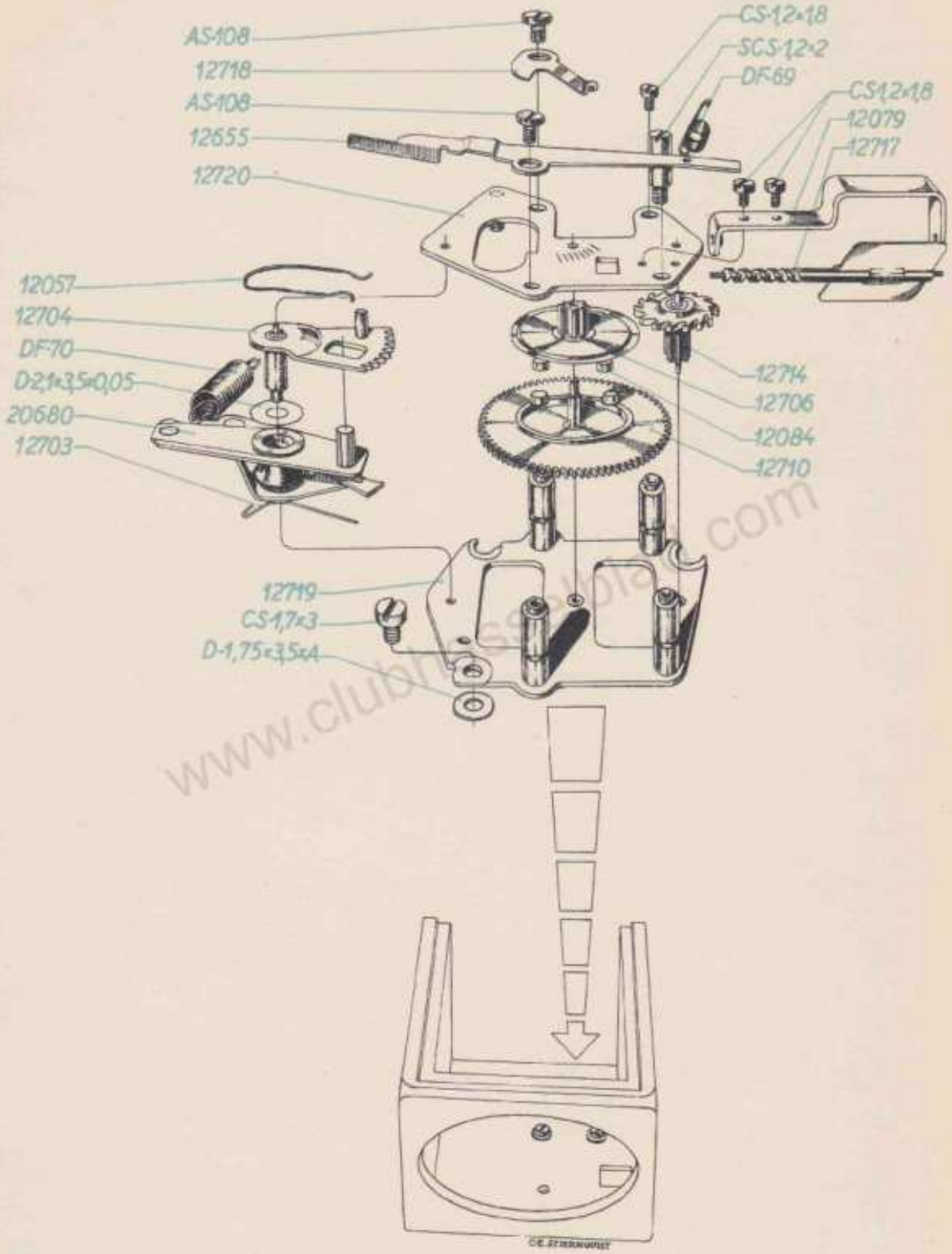

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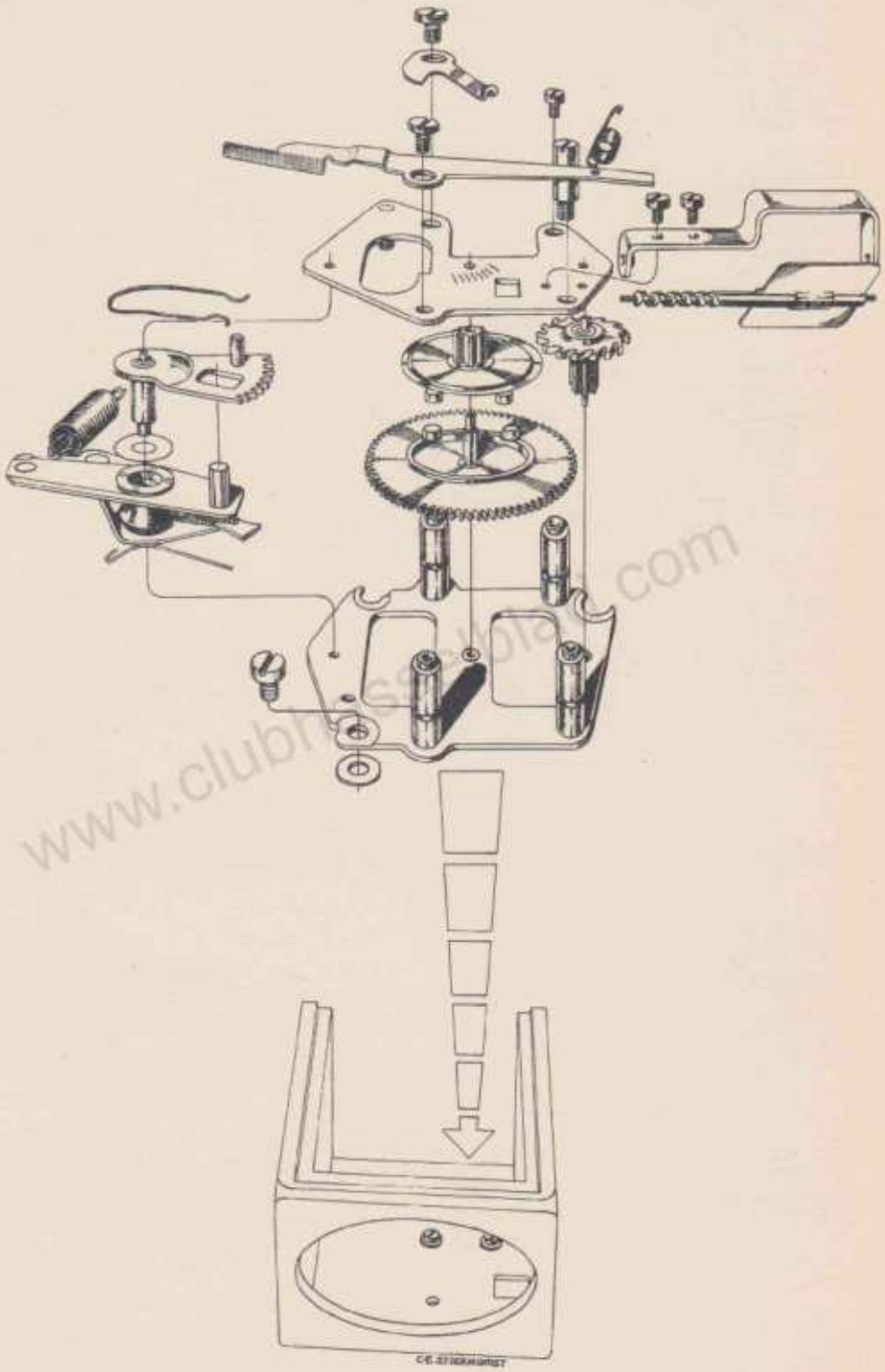
4



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1953-IV

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12092		30204	
12094		12087	
12095		12090	
12096		12091	
12098		12097	
12110		12103	
12364		12119	
FS–1.7×4	(2)	12120	
		12336	
		AS–103	30203
		CS–1.7×2	20515
		CS–1.7×3.5	12691
		DF–53	12695
		DF–72	AS–104
		SCS–2×4	CS–1.2×1.5
		SCS–2.3×3	FB–2
		SCS–2.3×3v	CS–1.2×2
		VF–30	SCS–1.7×2.5 (2)
		VF–40	SCS–1.7×3.5 (2)
			SCS–2×3.8
			VF–41

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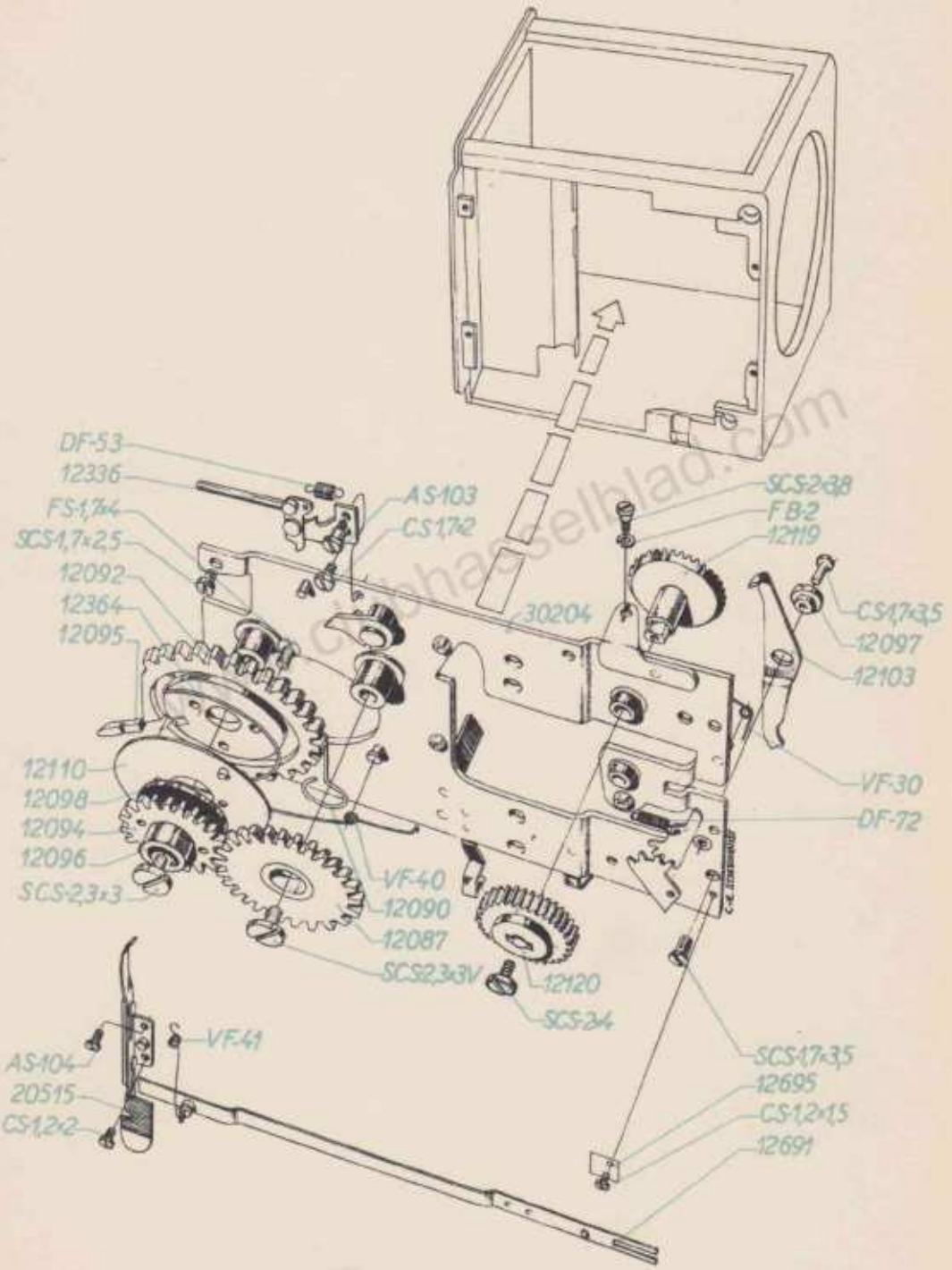

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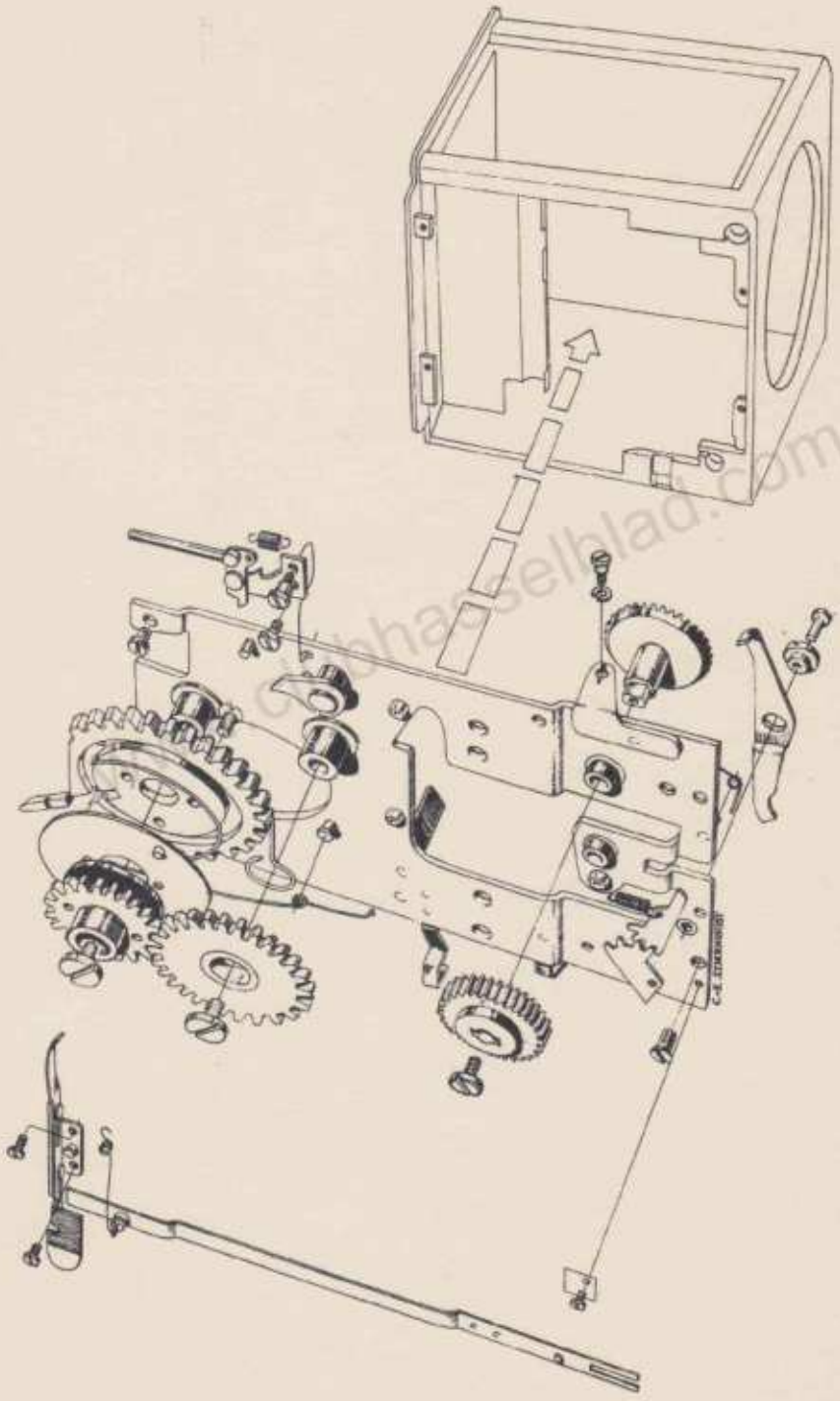

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